D 101.11:5-3431-213-14

TM 5-3431-213-14

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

OPERATOR, ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE MANUAL, INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST

WELDING MACHINE, ARC: GENERAL AND INERT GAS SHIELDED, TRANSFORMER-RECTIFIER TYPE, AC AND DC; 300 AMPERE RATING AT 60% DUTY CYCLE (HARNISCHFEGER MODEL DAR-300HFSG) FSN 3431-984-3401 (HARNISCHFEGER MODEL 2100H2007) FSN 3431-926-3746

RETURN TO G

This copy is a reprint which includes current pages from Change 1.

HEADQUARTERS, DEPARTMENT OF THE ARMY

DECEMBER 1969

SAFETY PRECAUTIONS

BEFORE OPERATION

Do not connect the ac power to the welding machine unless the main power source switch is in the OFF position.

See that the ground terminal lug is connected through the input cable or by separate conductor to the power system ground. An ungrounded machine can cause death by electrocution to personnel coming in contact with it.

Check for leaks at all gas connections before operating this unit. A spark generated by the welding arc can cause an explosion.

Do not reposition the voltage change terminal connecting links while power source is connected to the machine. To do so could cause a serious electrical shock and possible death.

DURING OPERATION

Do not make or break any connections or perform any maintenance while power source is connected to the welding machine. To do so can cause death by electrocution.

Do not come in contact with the electrode while the machine is in operation. The high voltage generated by the machine can cause death by electrocution.

Be very careful when the unit or surrounding area is wet or damp. Coming in contact with a wet or damp unit can cause a serious electrical shock and possible death.

When malfunction of the selenium rectifier occurs, thoroughly ventilate the area to prevent inhalation of poisonous fumes. Do not handle the damaged rectifier while it is warm so as not to absorb poisonous selenium oxide compound through the skin. Failure to observe this warning can result in severe injury or possible death.

AFTER OPERATION

See that the ground terminal lug is connected through the input cable or by separate conductor to the power system ground. An ungrounded machine can cause death by electrocution to personnel coming in contact with it.

Check for leaks at all gas connections. A spark can cause the gas to explode.

Do not reposition the voltage change terminal connecting links while the power is connected to the machine. To do so could cause a serious electrical shock and possible death.

When malfunction of the selenium rectifier occurs, thoroughly ventilate the area to prevent inhalation of poisonous fumes. Do not handle the damaged rectifier while is is warm so as not to absorb the poisonous selenium oxide compound through the skin. Failure to observe this warning can result in a severe injury or possible death.

When making a test on the high frequency transformer, make sure that the transformer is on an insulated bench. Do not touch an activated transformer or the wires leading from it. To do so may cause a serious electrical shock or possible death to personnel performing the test.

Short the capacitor connections to ground before removal. Failure to do this may result in a serious electrical shock.

Change No. 1

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., *12 April 1973*

Operator, Organizational, Direct Support, and General Support Maintenance Manual Including Repair Parts and Special Tools List

WELDING MACHINE, ARC: GENERAL AND INERT GAS SHIELDED, TRANSFORMER-RECTIFIER TYPE, AC AND DC; 300 AMPERE AT 60% DUTY CYCLE (HARNISCHFEGER MODEL DAR-300HFSG)

FSN 3431-984-3401 (HARNISCHFEGER MODEL 2100H2007)

FSN 3431-926-3746

TM 5-3431-213-14, 19 December 1969, is changed as follows:

Page B-1. Appendix B is superseded as follows:

APPENDIX B

BASIC ISSUE ITEM LIST AND ITEMS TROOP INSTALLED OR AUTHORIZED

Section I. INTRODUCTION

B-1. Scope

This appendix lists basic issue items, items troop installed or authorized which accompany the welding machine and are required by the crew/operator for operation, installation, or operator's maintenance.

B-2. General

This basic issue items, items troop installed or authorized list is divided into the following sections:

a. Basic Issue Items List—Section II. Not applicable.

b. Items Troop Installed or Authorized List—Section III. A list in alphabetical sequence of items which at the discretion of the unit commander may accompany the end item, but are NOT subject to be turned in with the end item.

B-3. Explanation of Columns

The following provides an explanation of columns in the tabular list of Basic Issue Items List, Se tion II, and Items Troop Installed or Authorize Section III.

a. Source, Maintenance, and Recoverabili Code(s) (SMR): Not applicable.

b. Federal Stock Number. This column in cates the federal stock number assigned to t item and will be used for requisitioning purpos

c. Description. This column indicates the Fe eral item name and any additional description the item required.

d. Unit of Measure (U/M). A 2 charact alphabetic abbreviation indicating the amount quantity of the item upon which the allowanc are based, e.g., ft, ea, pr, etc.

e. Quantity Authorized (Items Troop Install or Authorized Only). This column indicates t quantity of the item authorized to be used wi the equipment.

Section III. ITEMS TROOP INSTALLED OR AUTHORIZED LIST

(1) SMR Code	(2) Federal Stock Number	(3) Description Ref No. & Mfr Code	Usable on Code	(4) Unit of Meas	(5) Qty Auth
PC	7520-559-9618	CASE, Maintenance and Operating Manual		EA	1
PC	4210-555-8837	EXTINGUISHER, Fire		EA	1
PC	5975-878-3791	ROD ASSEMBLY, Ground		EA	1

By Order of the Secretary of the Army:

CREIGHTON W. ABRAMS
General, United States Army
Chief of Staff

Official:
VERNE L. BOWERS
Major General, United States Army
The Adjutant General

Distribution:

To be distributed in accordance with DA Form 12-25A, (qty rqr block No. 182)' Organizational maintenance requirements for Welding.

TECHNICAL MANUAL
No. 5–3431–213–14

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., *19 December 1969*

OPERATOR, ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE MANUAL, INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST

WELDING MACHINE, ARC: GENERAL AND INERT GAS SHIELDED, TRANSFORMER-RECTIFIER TYPE, AC AND DC; 300 AMPERE RATING AT 60% DUTY CYCLE (HARNISCHFEGER MODEL DAR–300HFSG) FSN 3431–984–3401 (HARNISCHFEGER MODEL 2100H2007) FSN 3431–926–3746

Current as of 10 April 1969

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***This publication supersedes TM 5–3431–213–15, 23 December 1964.**

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CHAPTER 1

INTRODUCTION

Section I. GENERAL

1–1. Scope

a. These instructions are published for the use of the personnel to whom the Harnischfeger Model DAR-300HFSG and Model 2100H2007 Welding Machine is issued. Chapters 1 through 4 provide information on the operation, preventive maintenance services, and organizational maintenance of the equipment, accessories, components, and attachments. Chapter 5 provides information for direct and general support maintenance. Also included are descriptions of main units and their functions in relation to other components.

b. Numbers in parentheses on illustrations indicate quantity.

1–2. Forms and Records

a. DA Forms and records used for equipment maintenance will be only those prescribed by TM 38–750.

b. The direct reporting of errors, omissions, and recommendations for improving this equipment publication by the individual user is authorized and encouraged. DA Form 2028 (Recommended Changes to Publications) will be used for reporting these improvements. This form may be completed using pencil, pen, or typewriter. DA Form 2028 will be completed by the individual using the manual and forwarded direct to Commanding General, U.S. Army Mobility Equipment Command, ATTN: AMSME-MPP, 4300 Goodfellow Boulevard, St. Louis, Mo. 63120.

Section II. DESCRIPTION AND DATA

1–3. Description

a. The Harnischfeger Model DAR–300HFSG, rectifier type AC/DC arc welding machine (fig. 1–1 and 1–3) is operated from an external power source of 208, 230, or 460 volt alternating current, and by 50 or 60 cycle single phase connections. This welder provides an electrical controlled current output for use in either shielded inert gas welding or metallic arc welding. The entire control section is located in a panel at the front of the welding machine. The welding machine can be operated by means of a remote off-on foot switch and remote output control rheostat. A range switch permits the selection of one of four desired current ranges. A soft switch permits feathering-in when the arc is started. The welding machine is equipped with a timer for spot welding and a post-purge timer for inert gas welding. The control panel includes an ac ammeter and a dc ammeter for measuring current output and an ac voltmeter and a dc voltmeter for measuring arc voltage.

b. The Model 2100H2007 (fig. 1–2) welding machine is furnished with a combination foot switch and output control. A pre-purge timer is furnished for inert gas welding.

1–4. Identification and Tabulated Data

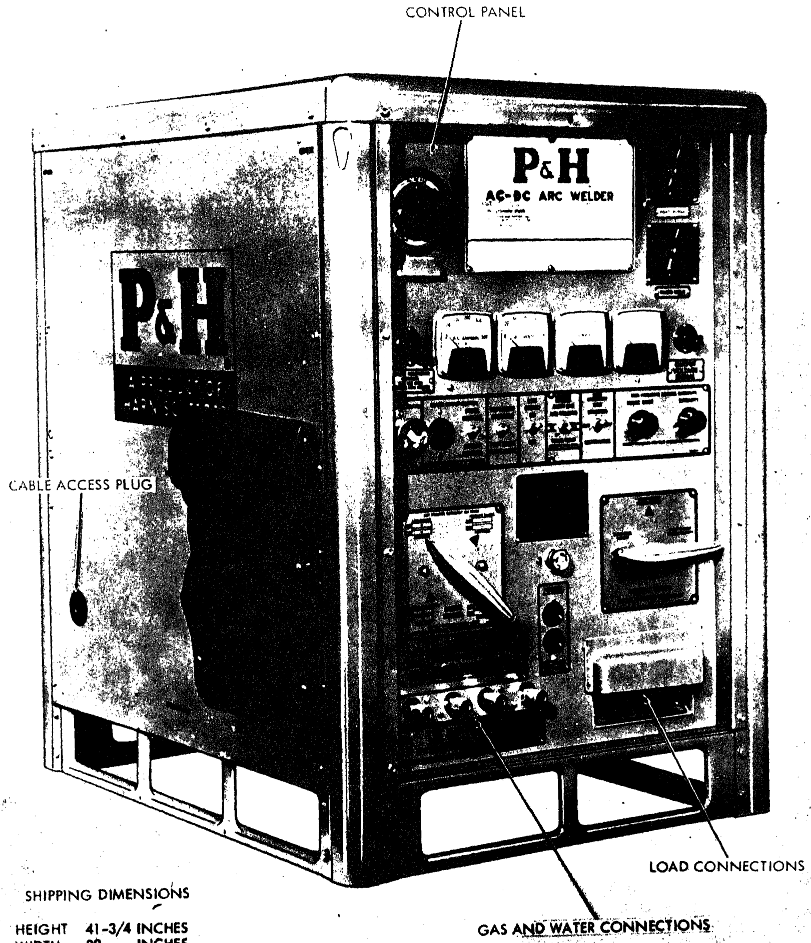
a. Identification. The welding machine has two major identification plates. The information contained on these plates is listed below.

(1) *Corps of Engineers plate.*

Nomenclature	Welding Machine: Arc 300 AMP
Make	Harnischfeger
Model No.	DAR–300HFSG
Height	41¾ in. (inches)
Width	28 in.
Length	36 in.
Weight	790 lbs.
Contract No.	DA–11–184–AMC–256 (T)

(2) *Manufacturer's Identification and Data Plate, Model DAR–300HFSG.*

Input:	
Primary volts	208/230/460



SHIPPING DIMENSIONS

HEIGHT	41-3/4	INCHES
WIDTH	28	INCHES
LENGTH	36	INCHES
WEIGHT	790	POUNDS

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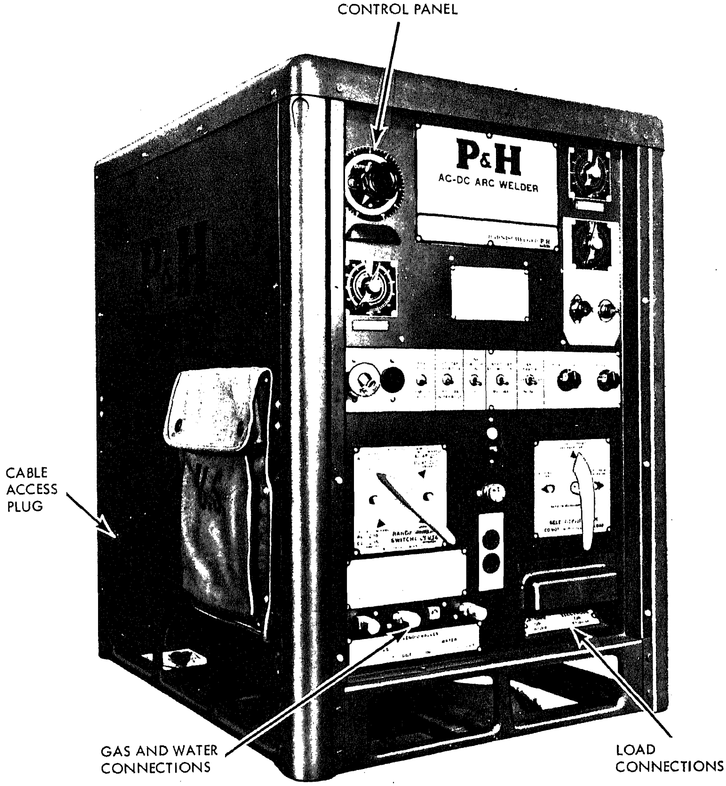
Figure 1-1. Arc welding machine right-front, three-quarter view with shipping dimensions, Model DAR-300HFSG.



SHIPPING DIMENSIONS

HEIGHT	42	INCHES
WIDTH	28	INCHES
LENGTH	36	INCHES
WEIGHT	800	POUNDS

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Figure 1–2. Arc welding machine, right-front, three-quarter view with shipping dimensions, Model 2100H2007.

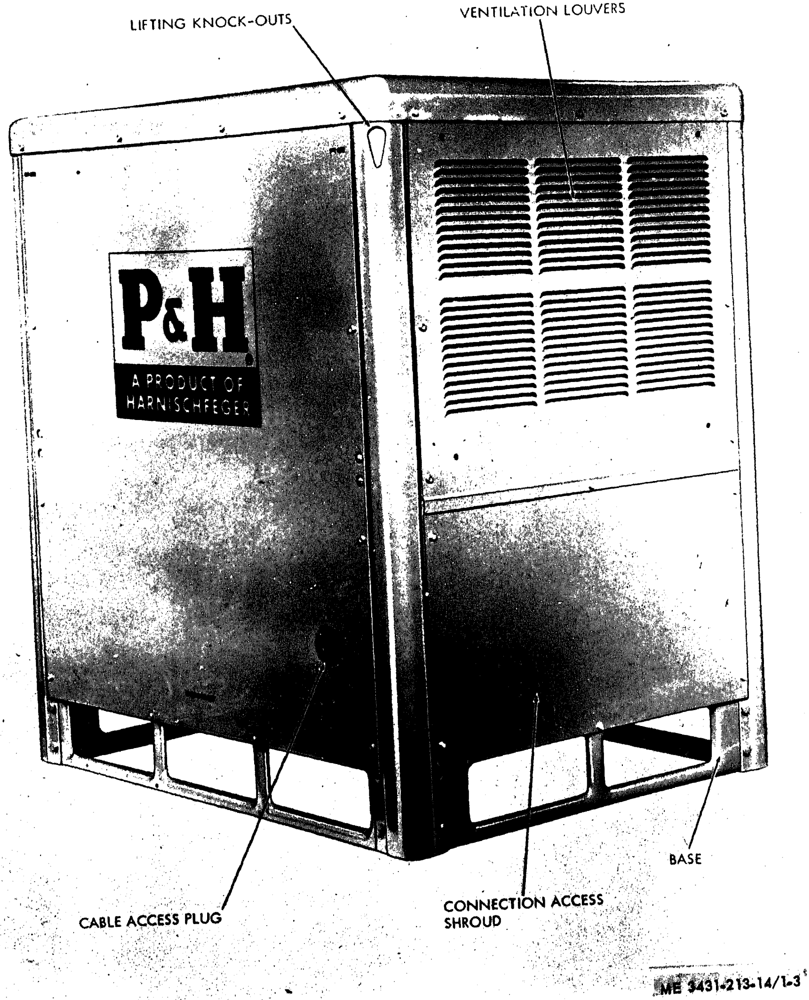


Figure 1–3. Arc welding machine, left rear, three-quarter view.

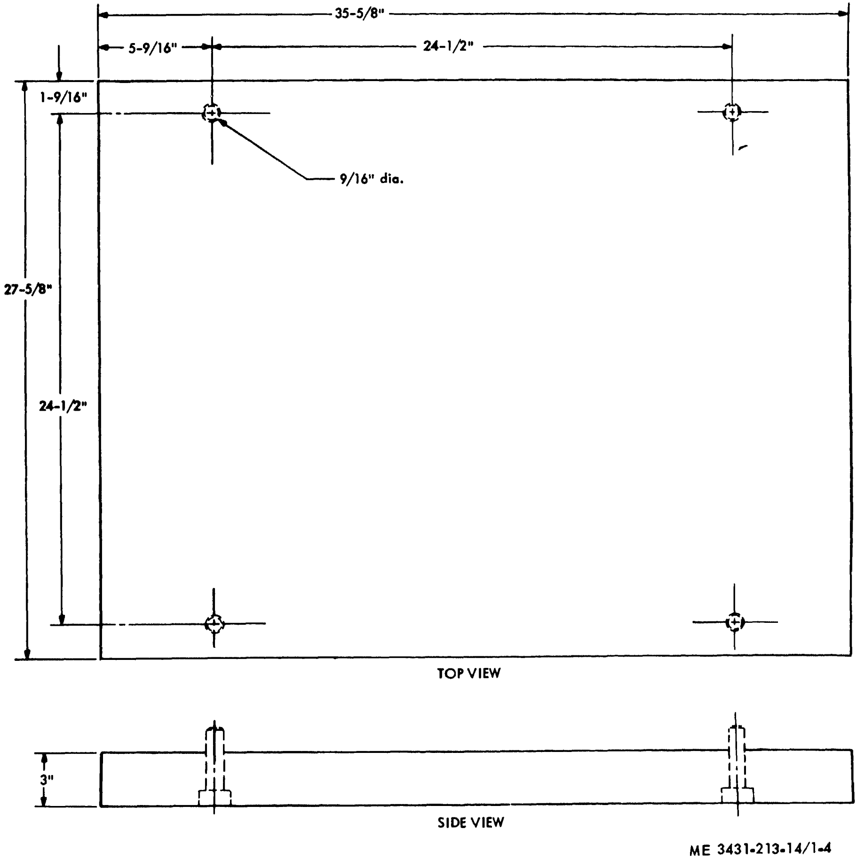
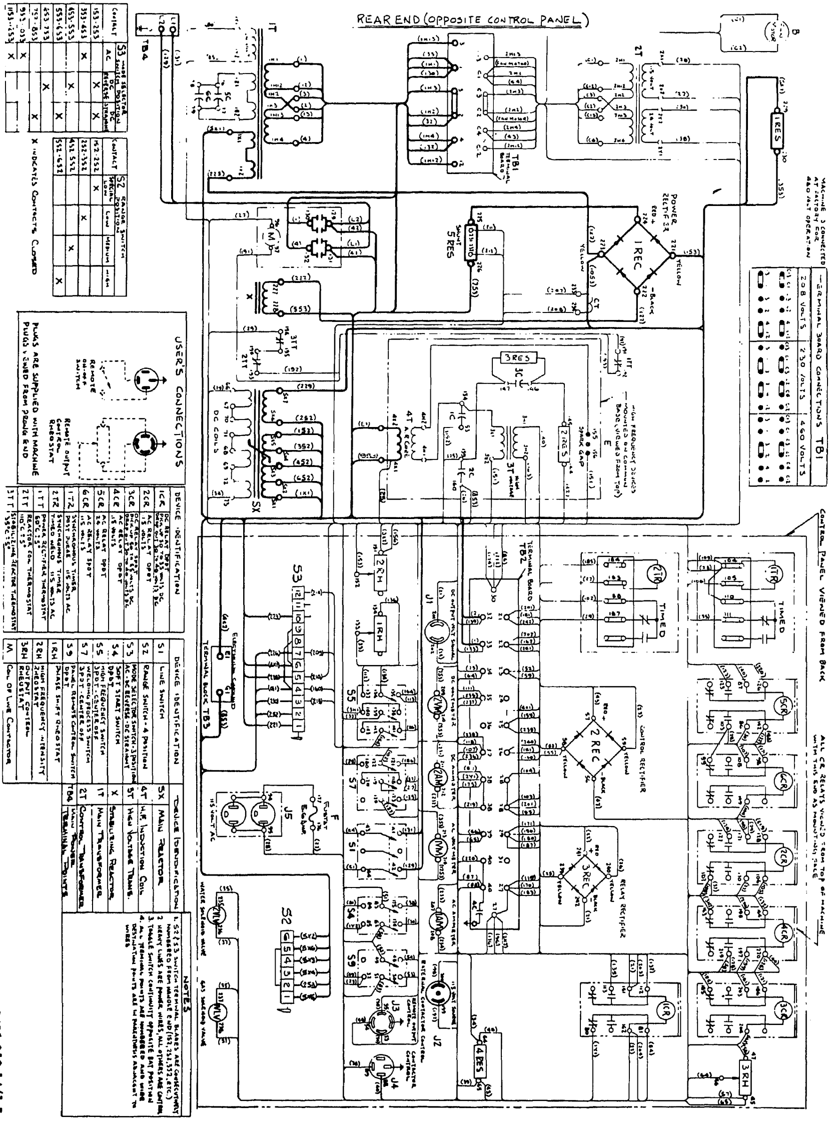


Figure 1–4. Base plan.

Cycles	50/60	
Phase	Single	
Output Rating:		
	AC	*DC*
Load volts	32	32
Load amperes	300	300
Duty cycle at rated load	60%	60%
Model No.	DAR-300HFSG	
Specification No.	2100H1580	

(3) *U.S. Identification Plate, Model 2100-H2007.*

Nomenclature	Welding Machine, Arc, Constant Current, AC/ Transformer-Rectifier Type
Contract No.	DAAK01-67-C-1505
Capacity	300 AMP AC or DC
FSN	3431-926-3746
Model No.	2100H2007
Length	36 in.
Height	42 in.
Width	28 in.



CONTACT	S3 MODE SELECTOR SWITCH POSITION AC	DC REVERSE	DC STRAIGHT
153-253		X	X
353-453	X		
453-553		X	
553-653			X
653-753		X	
753-853			X
953-1053	X		
1153-1253	X		

CONTACT	S2 RANGE SWITCH POSITION SPECIAL LOW	LOW	MEDIUM	HIGH
152-252	X			
252-352		X		
452-552			X	
552-652				X

X INDICATES CONTACTS CLOSED

DEVICE	IDENTIFICATION
1CR	DC RELAY DPDT PICK-UP 30 TO 35 VOLTS DC DROP OUT 20 TO 40 VOLTS DC
2CR	AC RELAY DPDT 115 VOLTS
3CR	DC RELAY SPDT PICK-UP 60 TO 65 VOLTS DC DROP OUT 30 TO 40 VOLTS DC
4CR	AC RELAY DPDT 115 VOLTS
5CR	AC RELAY DPDT 24 VOLTS
6CR	AC RELAY SPDT 115 VOLTS
1TR	SYNCHRONOUS TIMER POST PURGE 115 VOLTS AC
2TR	SYNCHRONOUS TIMER TIMED WELD 115 VOLTS AC
1TT	POWER RECTIFIER THERMOSTAT 60°C ± 5°
2TT	REACTOR COIL THERMOSTAT 110°C ± 5°
3TT	STABILIZING REACTOR THERMOSTAT 135°C ± 5°

DEVICE	IDENTIFICATION
S1	LINE SWITCH
S2	RANGE SWITCH - 4 POSITION
S3	MODE SELECTOR SWITCH - 3 POSITION AC - DC REVERSE - DC STRAIGHT
S4	SOFT START SWITCH DPDT
S5	HIGH FREQUENCY SWITCH 3PDT - CENTER OFF
S7	WELDING PROCESS SWITCH 3PDT - CENTER OFF
S9	PANEL REMOTE CONTROL SWITCH DPDT
1RH	PHASE SHIFT RHEOSTAT
2RH	HIGH FREQUENCY INTENSITY RHEOSTAT
3RH	OUTPUT CONTROL RHEOSTAT
M	COIL OF LINE CONTACTOR

DEVICE	IDENTIFICATION
SX	MAIN REACTOR
4T	H.F. INDUCTION COIL
5T	HIGH VOLTAGE TRANS.
X	STABILIZING REACTOR
1T	MAIN TRANSFORMER
2T	CONTROL TRANSFORMER
TB4	MAIN POWER TERMINAL POINTS

NOTES

1. S2 & S3 SWITCH TERMINAL BLADES ARE CONSECUTIVELY NUMBERED FROM HANDLE END (152, 252, 352, ETC.)
2. HEAVY LINES ARE POWER WIRES, ALL OTHERS ARE CONTROL.
3. TOGGLE SWITCH CONTINUITY OPPOSITE BAT POSITION
4. ALL TERMINAL POINTS ARE NUMBERED AND WIRE DESTINATION POINTS ARE IN PARENTHESIS ADJACENT TO WIRES

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Figure 1-5. Practical wiring diagram, Model DAR-300HFSG.

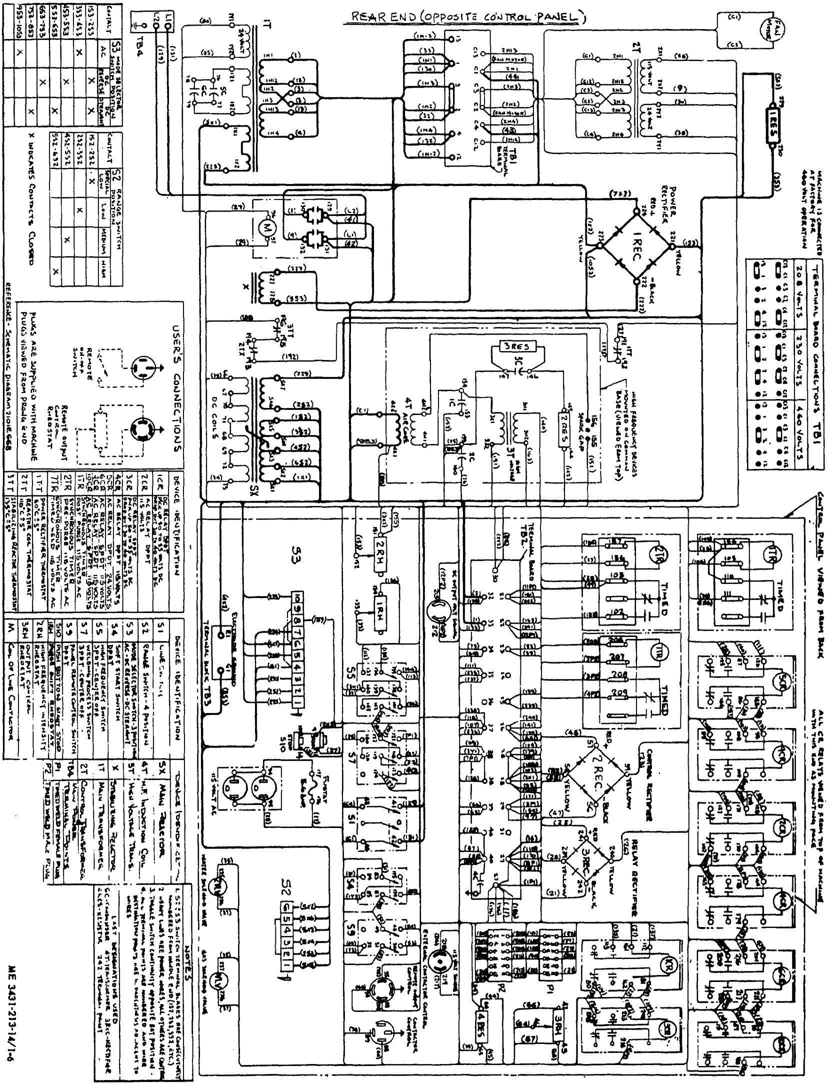

REAR END (OPPOSITE CONTROL PANEL)
MACHINE IS CONNECTED AT FACTORY FOR 460 VOLT OPERATION
TERMINAL BOARD CONNECTIONS TB1
208 VOLTS
230 VOLTS
460 VOLTS
POWER RECTIFIER
1 REC
1 RES
1T
2T
3T
4T
TB1
TB2
TB3
TB4
SX
X
3 RES
2 RES
4 RES
DC COILS
USER'S CONNECTIONS
PLUGS ARE SUPPLIED WITH MACHINE
PLUGS VIEWED FROM PRONG END
REMOTE ON-OFF SWITCH
REMOTE OUTPUT CONTROL RHEOSTAT
REFERENCE - SCHEMATIC DIAGRAM 2101E668
CONTROL PANEL VIEWED FROM BACK
ALL CR RELAYS VIEWED FROM TOP OF MACHINE WITH THIS END AS MOUNTING FACE
CONTROL RECTIFIER
2 REC
RELAY RECTIFIER
3 REC
TIMED
S1
S2
S3
S4
S5
S7
S9
S10
1RH
2RH
3RH
P1
P2
DEVICE IDENTIFICATION
X INDICATES CONTACTS CLOSED
NOTES
LAST DESIGNATIONS USED

Figure 1-6. Practical wiring diagram, Model 2100H2007.

Shipping weight	800 lb.
Make	Harnischfeger

b. Tabulated Data.

(1) *Welding machine, arc.*

Manufacturer	Harnischfeger
Model	DAR–300HFSG and 2100H2007
Type	AC-DC Arc, Inert Gas

(2) *Solenoid valve.*

Manufacturer	Controls Co. of America
Part number	70291–063
Voltage	115 v (volts)

(3) *Fan motor.*

Manufacturer	Harnischfeger
Part number	288Z15
Rpm (revolutions per minute)	1800
Voltage	230 v
Cycle	60
Phase	1
Horsepower	⅛

(4) *Contractor.*

Manufacturer	Arrow-Hart and Hegeman, Model DAR–300HFSG
Manufacturer	Clark Controller, Model 2100H2007
Part number	34522–U, Model DAR–300HFSG
Part number	A60–290650A, Model 2100H2007
Poles	4
Ampere rating per pole	50 a (ampere)
Voltage	115 v
Cycles	50/60

(5) *Dimensions and weight.*

(*a*) *Model 2100H2007.*

Height	42 in.
Width	28 in.
Length	36 in.
Weight	800 lbs.

(*b*) *Model DAR–300HFSG.*

Height	41¾ in.
Width	28 in.
Length	36 in.
Weight	790 lbs.

(6) *Adjustments.*

Spark gap	0.006 in.

(7) *Base plan.* Refer to figure 1–4.

(8) *Wiring diagram.* Refer to figure 1–5, Model DAR–300HFSG and refer to figure 1–6, Model 2100H2007.

1–5. Difference in Models

This manual covers the Harnischfeger Models DAR–300HFSG and 2100H2007. The difference between the models is explained below.

a. An on-off foot switch and a separate remote output control rheostat are furnished with the Model DAR–300HFSG welding machine. A combination foot on-off switch and remote output control is furnished with the Model 2100H2007 welding machine.

b. A spot weld timer and a post-purge timer are furnished on the Model DAR–300HFSG welding machine. A spot weld timer, post-purge timer, and pre-purge timer are furnished on the Model 2100H2007 welding machine.

c. The control panel on the Model DAR–300HFSG welding machine includes an ac ammeter and a dc ammeter for measuring current output, and an ac voltmeter and a dc voltmeter for measuring arc voltage. No meters are furnished on the Model 2100H2007 welding machine.

d. A line on-off switch is furnished on the Model DAR–300HFSG welding machine. A line on-off switch and a start-stop pushbutton switch are furnished on the Model 2100H2007 welding machine.

CHAPTER 2

INSTALLATION AND OPERATING INSTRUCTIONS

Section I. SERVICE UPON RECEIPT OF EQUIPMENT

2–1. Inspecting and Servicing Equipment

a. Check packing list for missing parts.

b. Inspect for damaged parts. Check welding machine for scratches, dents, or damaged housing.

c. Inspect for broken or damaged controls and switches.

d. Inspect for loose or missing screws, panels and fittings.

e. Perform daily preventive maintenance services (para 3–5).

2–2. Installations of Separately Packed Components

There are no separately packed components with the welding machine.

2–3. Installation or Setting-Up Instructions

a. Ground and Electrode Cables Connections. Refer to figure 2–1 and 2–2 and connect the ground and electrode cable.

Warning: **Do not make or break any connection or perform any maintenance while the welding machine is in operation. The high voltage created by this machine can cause death by electrocution.**

Note. When installing welding machine allow at least 18 inches on all sides to insure adequate ventilation.

b. Water Connections. Refer to figures 2–1 and 2–2 and connect suitable pipe and fittings to the welding machine. The solenoid valve controlling the water flow is capable of handling pressures up to 200 psi and will withstand temperatures up to 150° F.

c. Gas Connections. Refer to figure 2–1 and 2–2 and connect suitable pipe and fittings to the welding machine.

Warning: **Check for leaks at all gas connections before operating the unit. A spark generated by this unit can cause an explosion.**

d. Radio Interference.

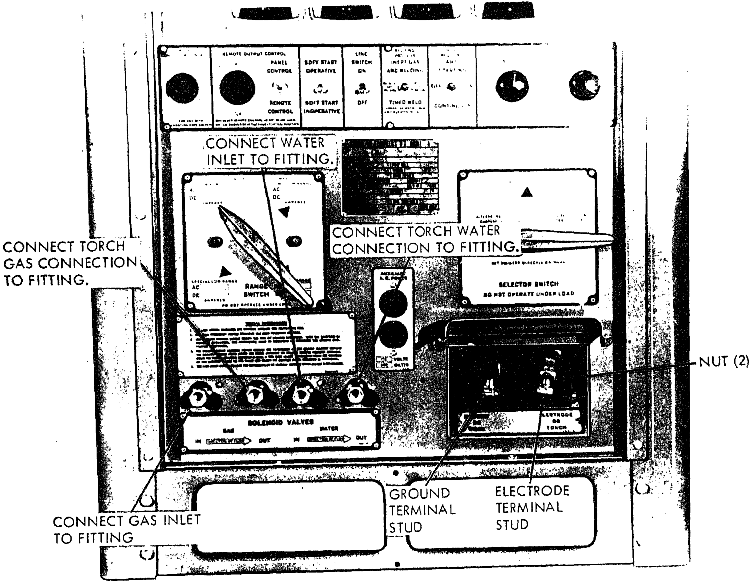
(1) The Federal Communications Commission has established limits for the permissible radiation from high frequency stabilized arc welders.

(2) Tests indicate that the equipment covered by this manual can be reasonably expected to meet the Federal Communications Commission's limits if installed, maintained and operated in accordance with the instructions included in this manual.

(3) In spite of all precautions taken by the manufacturer, it is still possible for this equipment to produce radio interference if the installation is not carefully made. Therefore, the user must take all possible steps to install and operate this equipment in accordance with all of these recommendations.

(4) Should this equipment cause radio interference, it is the user's responsibility to take immediate steps to eliminate such interference. The manufacturer will assist the user by supplying technical information.

(5) The degree of interference caused by a high frequency stabilized welder installation will, to a large extent, depend upon local conditions. One of the most important factors is the strength of the desired signal from the broadcast station as related to the strength of the unwanted signal from the welder installation. The closer the radio receiver is to the welder installation, the more likely it is to pick up interference. Similarly the closer the radio receiver is to the broadcasting station, the more likely it is to get interference-free reception. The more powerful the broadcasting station, the less probability there is of interference from a welder installation for any given distance. Thus, in a locality served by a number of powerful nearby broadcasting stations, good reception can be obtained from a radio receiver located fairly near a welder installation but, in an area remote from broadcasting stations, a high


CONNECT WATER INLET TO FITTING.
CONNECT TORCH WATER CONNECTION TO FITTING.
CONNECT TORCH GAS CONNECTION TO FITTING.
NUT (2)
SELECTOR SWITCH
DO NOT OPERATE UNDER LOAD
SOLENOID VALVES
GROUND TERMINAL STUD
ELECTRODE TERMINAL STUD
CONNECT GAS INLET TO FITTING

NOTE: REMOVE NUT (2). CONNECT GROUND AND ELECTRODE CABLES. REPLACE NUT.

ME 3431-213-14/2-1 ①

A. Load, gas and connections.

Figure 2-1①. Connections, Model DAR-300HFSG.

requency stabilized welder installation may cause interference over a wider area.

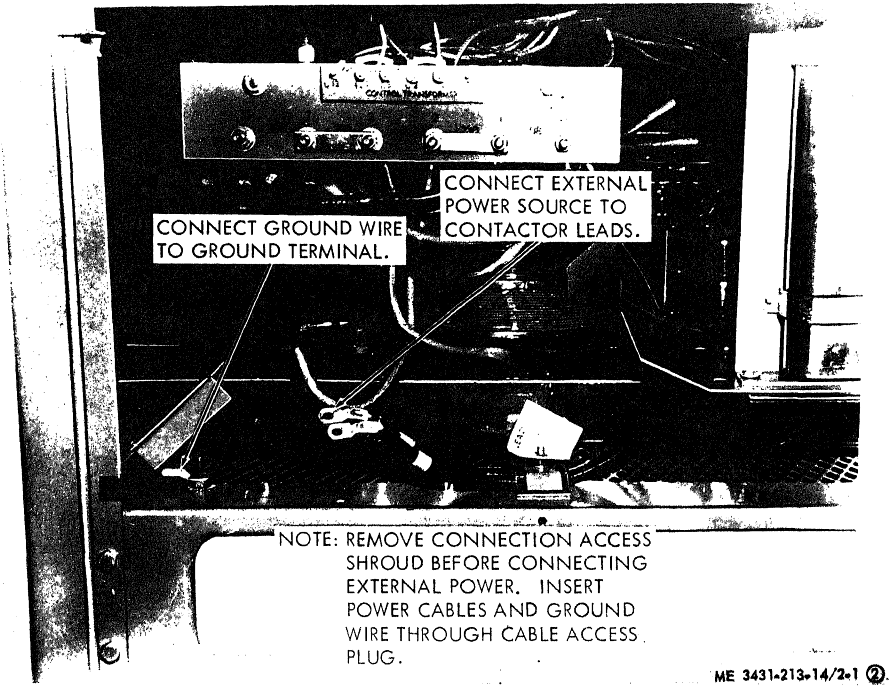
(6) There are many electrical devices which can cause radiation and, in most cases, it is easy to distinguish between the radiation from these devices and that coming from a high frequency stabilized welder installation. However, it has been found that there are some electrical devices which are capable of causing radio interference and which, in a radio receiver, are almost identical with the interference caused by a welder. Therefore, in all cases where there is a complaint, a quick check should be made to determine if the interference is actually being caused by the welder. The easiest way to do this is to listen in on the radio receiver in which interference is occurring while the welder is being turned on and off. Where more than one welder is being used, each should be tested individually with the other turned off. If the interference does not stop when the welder is turned off, obviously the welder is not causing the interference.

Note. The amount of radiation from any installation can be very greatly reduced if the installation is properly made. Factors such as the proper grounding of the welding equipment and the shielding of exposed wires enter into making a good installation.

(7) Installation of High Frequency Stabilized: Arc Welders and related equipment should be made in accordance with instructions in this manual.

e. General Instructions for all Installations.

(1) The following steps should be taken on all installations. This procedure will substantially reduce the radiation, and the installation will be less likely to cause radio interference than an installation made in a haphazard manner. The wider the spark gap setting, the greater is the power



CONNECT EXTERNAL POWER SOURCE TO CONTACTOR LEADS.

CONNECT GROUND WIRE TO GROUND TERMINAL.

NOTE: REMOVE CONNECTION ACCESS SHROUD BEFORE CONNECTING EXTERNAL POWER. INSERT POWER CABLES AND GROUND WIRE THROUGH CABLE ACCESS PLUG.

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B. External power source and ground connections.

*Figure 2-1*②—Continued.

which is radiated and an unnecessarily large setting could cause excessive radio interference.

(2) Make sure that the spark gaps of the high frequency unit are at the smallest setting which will give satisfactory welding results. The recommended maximum gap setting is 0.006 inches.

(3) Use the shortest welding leads which can conveniently be used. Keep the welding leads on or near the floor.

(4) Properly ground the welding circuit in accordance with the instructions given.

(5) Many high frequency stabilized arc welder installations have been made in small corrugated-iron buildings. While such buildings are supposed to act as shields to prevent radiation, it has been found that unless the building is properly grounded, it may actually act as a radiator. Therefore, it is advisable to provide several grounds around the perimeter of the buildings. These grounds can be made with metal pipe or ground rods, and a good copper braid connection should be made from the ground rod to the metal walls of the building. For best results, the earth around these ground rods should be treated.

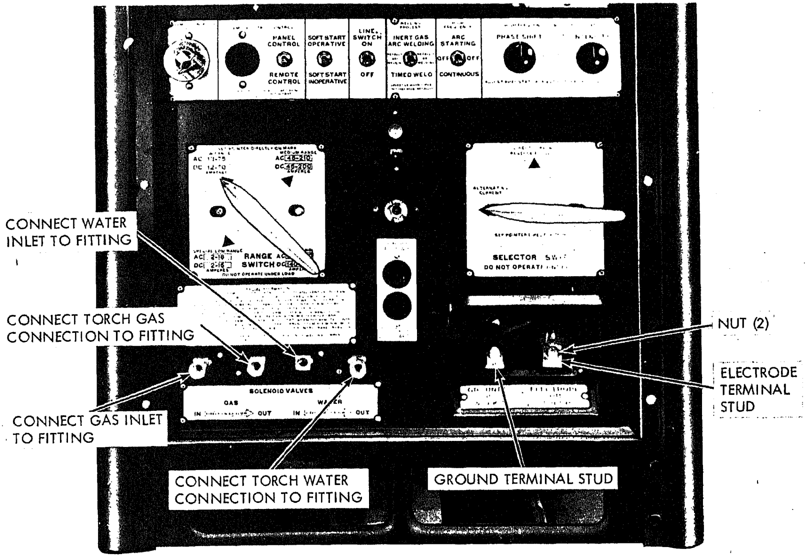
f. Grounding the Welding Circuit.

(1) *Ground selection.*

(*a*) Proper grounding of the welding circuit will greatly reduce the interference in most cases. It is very important that not more than one ground be used anywhere in the welding circuit. Tests have shown that the best place to make the ground connection in the welding circuit is usually to the work terminal of the welder.

(*b*) This ground should be as short and as direct as possible.

(*c*) Water pipes, electrical conduit systems,



NOTE: REMOVE NUT (2), CONNECT GROUND AND ELECTRODE CABLES. REPLACE NUT.

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Figure 2–2. Connections, Model 2100H2007.

etc., usually make excellent protective grounds for electrical systems, but, in general, they should not be used as grounds in high frequency installations.

(*d*) If a water pipe enters the ground not more than 8 or 10 feet from the welder, it may make a satisfactory ground. However, if the water pipe runs above the ground level for some distance before it enters the ground, it will not be satisfactory. The steel frame of a building or the walls of a corrugated-iron building are not satisfactory and should not be used for grounding.

(*e*) It has been found that the best ground is a copper-weld ground rod driven into the ground as close as possible to the machine. Copper-weld ground rods are standard devices which are used by electric power and telephone companies for ground purposes, and they can be obtained from any large electrical supply house. They consist of a pointed steel rod with a heavy copper coating welded to the steel core. They are easy to drive into the ground and will last much longer than steel pipe or other substitutes. In an emergency, an ordinary steel or brass pipe can be used, but, in general, it will be found that rust and electrolytic corrosion will rapidly destroy the pipe, particularly because of the ground treating electrolyte which will be in contact with the pipe if recommended procedure is followed.

(*f*) It is recommended that a rod having a length of 8 feet and a diameter of either ½ or ⅝ inch be used. The connection from the ground rod to the work terminal of the welder or high frequency unit should be made by means of heavy copper braid, using standard copper-weld clamps. Refer to figure 2–3. The copper braid should consist of at least 240 strands of No. 30 wire, or its equivalent, and should in no case be smaller than the work lead of the welder. (A heavier braid can be used.)

(*g*) When the welder is located near an outside wall and the earth beyond this wall is exposed, the ground rod can be placed outside the building where a ground lead more than 8 feet in length is required to reach an outside ground rod, it is best to use a ground rod inside the building, immediately adjacent to the welder. Where the building has a concrete floor, it will be necessary to make an opening approximately 6 inches in diameter all the way through the concrete floor in order to be able to properly treat the earth around the ground rod. The ground rod should be driven below the level of the concrete surface and a cover provided to avoid accidents.

(2) *Soil treatment for good ground.* The amount of reduction in radiation which a good ground will produce will depend upon the ground resistance. The lower the resistance between the ground rod and the surrounding earth, the lower will be the radiated signal. It has been found that if the earth around the ground rod is treated with a conducting solution known as an electrolyte the signal will be lowered by an appreciable amount.

(3) *Outside ground.* Dig a circular trench around the ground rod as shown. Place in this trench 20 to 30 pounds of copper sulphate, magnesium sulphate, or salt. Then flood the trench several times and allow the water to sink into the ground. The trench can then be covered over with earth. Normal rainfall will generally keep the ground moist enough to continually dissolve more salt which will continually renew the electrolyte, thus maintaining a low ground resistance. (Refer to A, fig. 2–3.)

(4) *Inside ground.* Fill the 6 inch diameter hole around the ground rod with copper sulphate, magnesium sulphate, or rock salt and flood this a number of times until at least 8 to 10 pounds have dissolved and soaked into the earth. Then fill the hole with salt and let it remain in this condition. It will be necessary to flood the hole periodically in order to keep enough electrolyte in the ground circuit. Therefore, provide a removable cover instead of pouring concrete around the ground rod.

(5) *Grounding of welders.*

(*a*) The welder should be grounded by running a piece of braid from a connection on the welder enclosure to the work terminal of the welder. Do not run a separate ground to the enclosure as, under certain conditions, this may greatly increase the amount of radio interference.

(*b*) The work or work table should not be grounded since the addition of a ground at this point will generally increase the amount of radiation. If, for any reason, it is impossible to avoid a ground at the work or work table, then put the ground rod near the work table, making this the only ground in the system. The ground connection to the enclosure of the welder can still be connected to the work terminal of the welder. However, the welder will secure its ground through the ground lead of the welding circuit, to the work table, and thence to the ground rod. The welder case should not be grounded by means of a third conductor in the primary cable. The welder should not be operated unless the case is grounded in accordance with foregoing.

g. Radiated Energy from Welder Equipment.

(1) *Welder leads.*

(*a*) The manner in which the noise is radiated will depend upon the type of installation. In an installation in which all of the power wiring, lighting wiring and telephone wires are shielded or are remote from the high frequency unit, the major part of the radiation will be directly from the welding leads. In most cases, the amount of radiation will be too small to cause any interference.

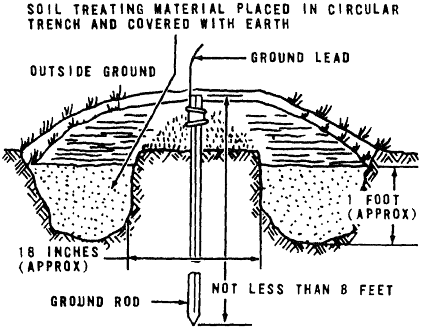
(*b*) The amount of radiation is dependent upon the length of the welding leads; the longer the welding leads, the greater the radiation. Therefore, the welding leads should be made as short as possible, consistent with convenience in welding but should not exceed 25 feet.

(2) *Electromagnetic coupling.*

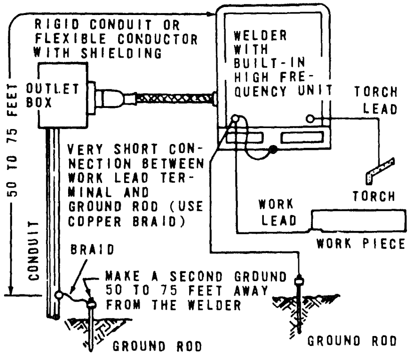
(*a*) In all cases, the initial radiation comes almost entirely from the welding leads. In installations where the power wiring is not in conduit or where there are unshielded lighting, telephone, or control wires near the welder, another factor must be considered.

(*b*) Any circuit which carries current sets up around itself a field which extends for some distance in all directions. Any other circuit which is within the influence of this field is said to be coupled to the first circuit. Thus, a circuit such as the welding leads which is carrying a high frequency current can transfer a part of this current from the welding leads to other unshielded power wiring, telephone wires, etc. These wires will in turn, act as antennas which will also radiate the high frequency current. Since these unshielded wires are usually considerably longer and higher than the welding leads, they are much better radiators than the welding leads. Therefore, in an installation of this type, the radiation into space from the power wiring and other unshielded wiring can be many times as great as the radiation from welding leads alone (fig. 1–5 and 1–6).

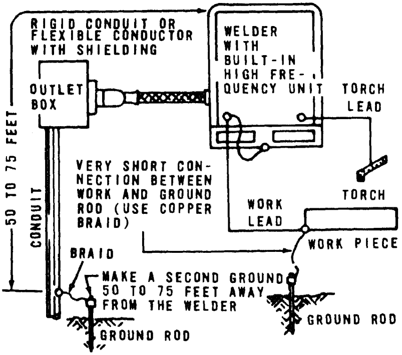
(*c*) It has been established by tests and measurements that, in most cases, very little of the energy in the power wires reaches the power wires by passing back through the welding equip-



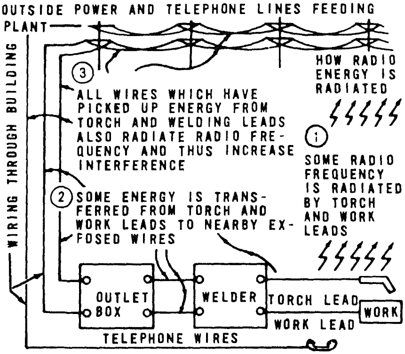
A. GROUND ROD INSTALLATION.


RIGID CONDUIT OR FLEXIBLE CONDUCTOR WITH SHIELDING
WELDER WITH BUILT-IN HIGH FREQUENCY UNIT
OUTLET BOX
TORCH LEAD
50 TO 75 FEET
VERY SHORT CONNECTION BETWEEN WORK LEAD TERMINAL AND GROUND ROD (USE COPPER BRAID)
TORCH
WORK LEAD
WORK PIECE
CONDUIT
BRAID
MAKE A SECOND GROUND 50 TO 75 FEET AWAY FROM THE WELDER
GROUND ROD
GROUND ROD

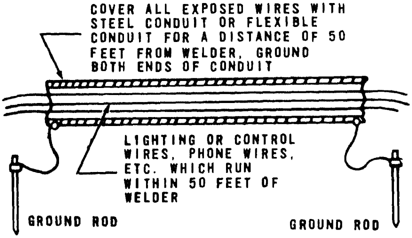
B. CONNECTION FOR INSTALLATION IN PLANT WITH WIRING IN CONDUIT AND NO GROUND CONNECTION TO WORK (PREFERRED).


RIGID CONDUIT OR FLEXIBLE CONDUCTOR WITH SHIELDING
WELDER WITH BUILT-IN HIGH FREQUENCY UNIT
OUTLET BOX
TORCH LEAD
50 TO 75 FEET
CONDUIT
VERY SHORT CONNECTION BETWEEN WORK AND GROUND ROD (USE COPPER BRAID)
TORCH
WORK LEAD
WORK PIECE
BRAID
MAKE A SECOND GROUND 50 TO 75 FEET AWAY FROM THE WELDER
GROUND ROD
GROUND ROD

C. CONNECTION FOR INSTALLATION IN PLANT WITH WIRING IN CONDUIT AND GROUND CONNECTION TO WORK (ALTERNATE)


OUTSIDE POWER AND TELEPHONE LINES FEEDING PLANT
WIRING THROUGH BUILDING
③ ALL WIRES WHICH HAVE PICKED UP ENERGY FROM TORCH AND WELDING LEADS ALSO RADIATE RADIO FREQUENCY AND THUS INCREASE INTERFERENCE
HOW RADIO ENERGY IS RADIATED
① SOME RADIO FREQUENCY IS RADIATED BY TORCH AND WORK LEADS
② SOME ENERGY IS TRANSFERRED FROM TORCH AND WORK LEADS TO NEARBY EXPOSED WIRES
OUTLET BOX
WELDER
TORCH LEAD
WORK
WORK LEAD
TELEPHONE WIRES

D. RF INTERFERENCE PROPAGATION.


COVER ALL EXPOSED WIRES WITH STEEL CONDUIT OR FLEXIBLE CONDUIT FOR A DISTANCE OF 50 FEET FROM WELDER, GROUND BOTH ENDS OF CONDUIT
LIGHTING OR CONTROL WIRES, PHONE WIRES, ETC. WHICH RUN WITHIN 50 FEET OF WELDER
GROUND ROD
GROUND ROD

E. CONNECTION FOR INSTALLATION IN PLANT WITH OPEN WIRING.

ME 3431-213-14/2-3

Figure 2–3. Welding machine grounding instructions.

ment. As appreciable coupling between the circuits of welding leads and the unshielded wires can take place when the unshielded wires are in the vicinity of the welding leads, all of the wiring in the welding area as well as the wiring to the welding equipment itself should be placed in conduit or shielded in the manner described herein.

(3) *Direct radiation from the welders.* The metal enclosure of the welder, if properly grounded, will practically eliminate any radiation from inside the machine. However, if the doors are left open, the shielding benefit of the enclosure is lost and interference trouble might result.

(4) *Shielding of plant wiring.* If the plant wiring is not in conduit, shield or change the location of all unshielded wiring for a distance of 50 feet from the welding leads. This includes telephone, lighting, control and signal wiring, as well as power wiring (fig. 2–1 and 2–2).

(5) *Power lines.*

(*a*) Usually installations having open power wiring cause the most radiation. As previously noted, radio frequency energy in the welding leads will couple to any unshielded wires in the vicinity of the welder and these, in turn, will reradiate the signal. Therefore, it is necessary to avoid coupling to any unshielded wires such as electric power wires, electric lighting wires, telephone wires, buzzer wires, or any other wires in the vicinity.

(*b*) If the building wires are in a conduit which is properly grounded in accordance with these instructions there are no other exposed wires near the welding machine, there usually will be no coupling into the wiring system of the building, and practically all of the radiation will be from the welding leads alone. However, even a few feet of exposed wire near the welding leads will pick up enough energy to cause considerable interference.

(*c*) Therefore, the wires connecting the welding transformer to the building wiring which is in conduit should be covered with a shield from end to end with no gap and with a good connection from the shield to the welding transformer case and to the conduit box. If there are any unshielded telephone, lighting or power wires in the vicinity of the welding transformer, all such wires should be enclosed in a shield for a distance of at least 50 feet in all directions from the welder and welding leads. This shield should be connected to a ground at some point near the welder and to another ground at the extreme end of the shields.

h. Check List of High Frequency Stabilized Arc-Welding Equipment Installation.

(1) Insure that the power leads to the high frequency stabilized equipment are in rigid metallic conduit.

(2) If rigid metallic conduit is not used, use equivalent copper braid sleeving or lead covered cable, etc.

Note. Spirally wound flexible metallic conduit is not suitable for this purpose unless very well bonded.

(3) Insure that there is a good electrical connection between the conduit and welding equipment cases and between conduit and service box or switch.

(4) Insure that the service conduit system is grounded at a point at least 50 feet away from the welding equipment case.

(5) If the conduit is coupled, insure that the joints are bonded within a distance of a 50-foot radius from the equipment.

(6) All unshielded power, light, telephone, and communication system wires originally in this 50-foot radius zone must be placed in grounded shields as specified or relocated outside of this zone. This applies to wires in and outside the building, guy and support wires, and large metallic objects.

(7) Insure that the case is connected to the work terminal of the equipment with a copper braid.

(8) Insure that the work terminal is connected to a good electrical ground with copper braid required size. (Should be equivalent to or greater than welding lead size.)

(9) Insure this ground cable is as short as possible. (8 feet or less.)

(10) If driven ground rods are used for grounds, they must be in moist or treated soil.

(11) If a cold water pipe is used for ground, it must enter the ground within 8 feet of the connection.

(12) All ground connections must be clean and tight.

(13) If unit is operated in a metal building, the building must be properly grounded.

(14) The welding leads must be as short as possible. (Not over 25 feet long.)

(15) The welding leads should be on the floor and as close together as possible.

(16) All doors and panels of equipment should be closed and bolted.

(17) The spark gaps should be set at the lowest gap possible for good welding operation. (Not over 0.006″.)

(18) In some cases it may be necessary to shield the electrode cable with copper braid and ground this shield to the equipment case.

(19) If the installation has been so the above questions can be answered in the affirmative, the equipment may reasonably be expected to meet the radiation limits set by the Federal Communications Commission.

2–4. Equipment Conversion

a. General. The welding machine can operate on 208, 230, or 460 volts by the correct positioning of the voltage change terminal connecting lines.

b. Voltage Change Bar Positioning.

(1) Remove the screw attaching the connection access shroud and remove the connection access shroud. Refer to figure 1–3.

(2) Refer to the wiring diagram, figures 1–5 and 1–6, and place voltage change terminal connecting links in the desired position.

***Warning:* Do not reposition voltage change terminal connecting links while power source is connected to the machine. To do so could cause a serious electrical shock and possible death.**

3) Voltage change terminal connecting links must be positioned for the same voltage on both the main terminal board and the control transformer terminal board. Refer to figure 3–9.

Section II. MOVEMENT TO A NEW WORKSITE

2–5. Dismantling for Movement

a. Disconnect load connections, external power and ground connections and gas and water connections (para 2–3).

b. If the welding machine is to be moved within a building it can be skidded or moved with a forklift. If the welding machine is to be moved other than for a short distance, cover the water and gas connecting fittings and load it on a truck or other conveyance with a suitable lifting device.

c. If it is desired to move the welder by means of an overhead crane, press in the "slugs" for lanced lifting holes located in the corner posts.

***Warning:* When using a lifting device to move the welding machine make sure that it has a safe lifting capacity of at least 1,000 pounds. Do not allow the welding machine to swing freely when being lifted. Failure to observe this warning may cause damage to the equipment or serious injury to personnel.**

2–6. Reinstallation After Movement

Refer to paragraph 2–3 for reinstallation instructions.

Section III. CONTROLS AND INSTRUMENTS

2–7. General

This section describes, locates, illustrates and furnishes the operator, crew, or organizational maintenance personnel sufficient information about the various controls and instruments for proper operation of the welding machine.

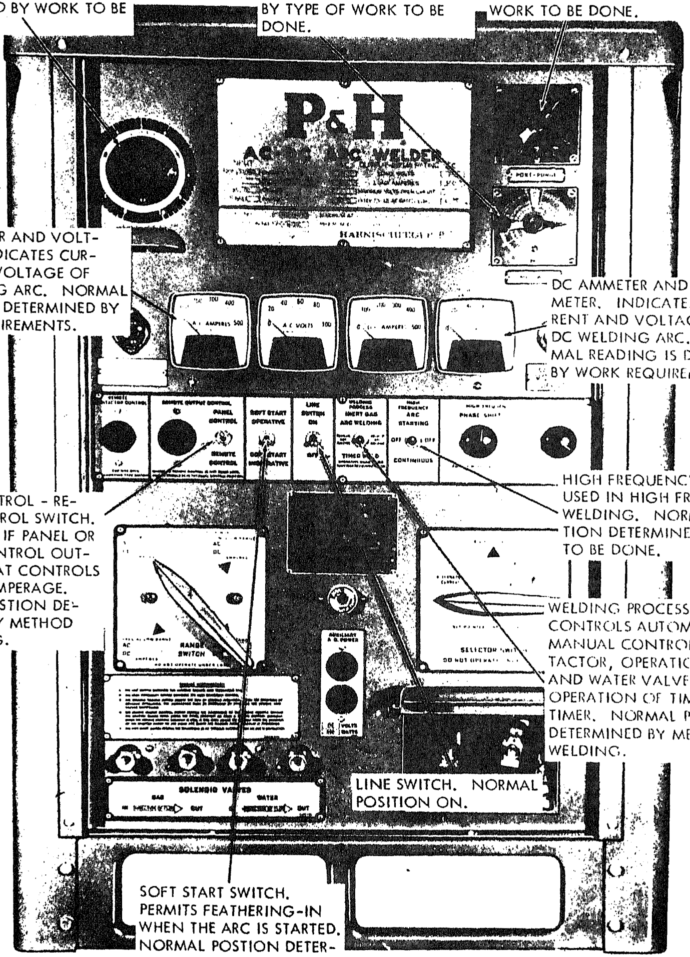
2–8. Controls and Instruments

The purpose of the controls and instruments and the normal and maximum reading of the instruments are illustrated in figure 2–4 and 2–5.

OUTPUT CONTROL RHEOSTAT. CONTROLS WELDING AMPERAGE WITHIN SELECTED RANGE. NORMAL POSITION DETERMINED BY WORK TO BE DONE.

TIMED WELD TIMER. CONTROLS WELDING TIME FOR SPOT ARC WELDING. NORMAL POSITION DETERMINED BY TYPE OF WORK TO BE DONE.

POST-PURGE TIMER. CONTROLS FLOW OF GAS AND WATER. NORMAL POSTION DETERMINED BY TYPE OF WORK TO BE DONE.



AC AMMETER AND VOLTMETER. INDICATES CURRENT AND VOLTAGE OF AC WELDING ARC. NORMAL READING IS DETERMINED BY WORK REQUIREMENTS.

DC AMMETER AND VOLTMETER. INDICATES CURRENT AND VOLTAGE OF DC WELDING ARC. NORMAL READING IS DETERMINED BY WORK REQUIREMENTS.

PANEL CONTROL - REMOTE CONTROL SWITCH. DETERMINES IF PANEL OR REMOTE CONTROL OUTPUT RHEOSTAT CONTROLS WELDING AMPERAGE. NORMAL POSTION DETERMINED BY METHOD OF WELDING.

HIGH FREQUENCY SWITCH. USED IN HIGH FREQUENCY WELDING. NORMAL POSITION DETERMINED BY WORK TO BE DONE.

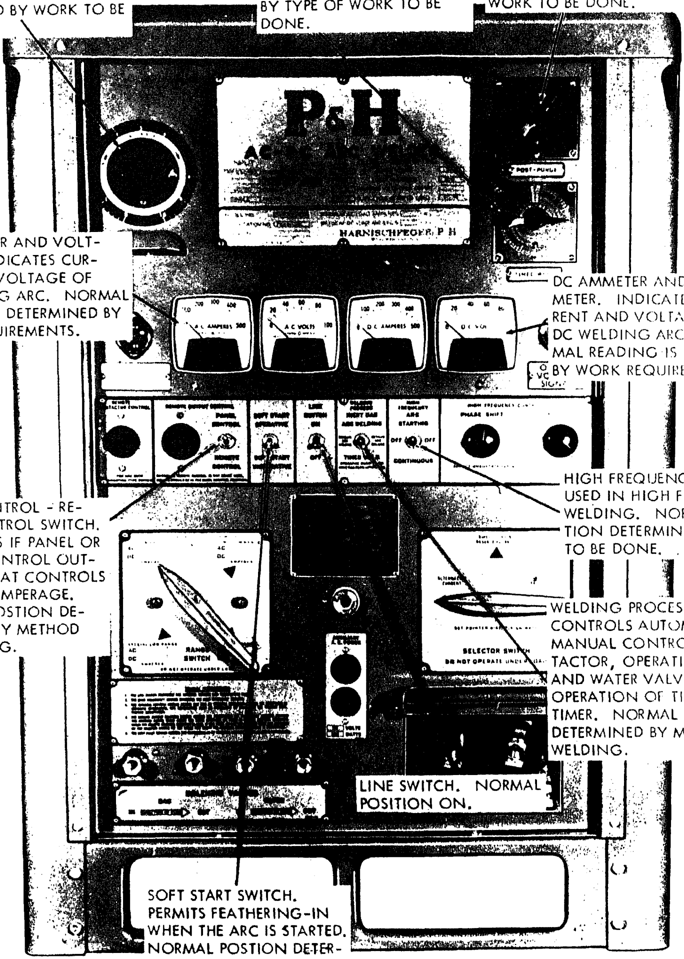
WELDING PROCESS SWITCH. CONTROLS AUTOMATIC OR MANUAL CONTROL OF CONTACTOR, OPERATION OF GAS AND WATER VALVES, AND OPERATION OF TIMED WELD TIMER. NORMAL POSITION DETERMINED BY METHOD OF WELDING.

LINE SWITCH. NORMAL POSITION ON.

SOFT START SWITCH. PERMITS FEATHERING-IN WHEN THE ARC IS STARTED. NORMAL POSTION DETERMINED BY METHOD OF WELDING.

ME 3431-213-14/2-4 ①

Figure 2-4①. Controls, Model DAR-300HFSG.



OUTPUT CONTROL RHEOSTAT. CONTROLS WELDING AMPERAGE WITHIN SELECTED RANGE. NORMAL POSITION DETERMINED BY WORK TO BE DONE.

TIMED WELD TIMER. CONTROLS WELDING TIME FOR SPOT ARC WELDING. NORMAL POSITION DETERMINED BY TYPE OF WORK TO BE DONE.

POST-PURGE TIMER. CONTROLS FLOW OF GAS AND WATER. NORMAL POSITION DETERMINED BY TYPE OF WORK TO BE DONE.

AC AMMETER AND VOLTMETER. INDICATES CURRENT AND VOLTAGE OF AC WELDING ARC. NORMAL READING IS DETERMINED BY WORK REQUIREMENTS.

DC AMMETER AND VOLTMETER. INDICATES CURRENT AND VOLTAGE OF DC WELDING ARC. NORMAL READING IS DETERMINED BY WORK REQUIREMENTS.

HIGH FREQUENCY SWITCH. USED IN HIGH FREQUENCY WELDING. NORMAL POSITION DETERMINED BY WORK TO BE DONE.

PANEL CONTROL - REMOTE CONTROL SWITCH. DETERMINES IF PANEL OR REMOTE CONTROL OUTPUT RHEOSTAT CONTROLS WELDING AMPERAGE. NORMAL POSTION DETERMINED BY METHOD OF WELDING.

WELDING PROCESS SWITCH. CONTROLS AUTOMATIC OR MANUAL CONTROL OF CONTACTOR, OPERATION OF GAS AND WATER VALVES, AND OPERATION OF TIMED WELD TIMER. NORMAL POSITION DETERMINED BY METHOD OF WELDING.

LINE SWITCH. NORMAL POSITION ON.

SOFT START SWITCH. PERMITS FEATHERING-IN WHEN THE ARC IS STARTED. NORMAL POSTION DETERMINED BY METHOD OF WELDING.

ME 3431-213-14/2-4 ②

*Figure 2-4*②—Continued.

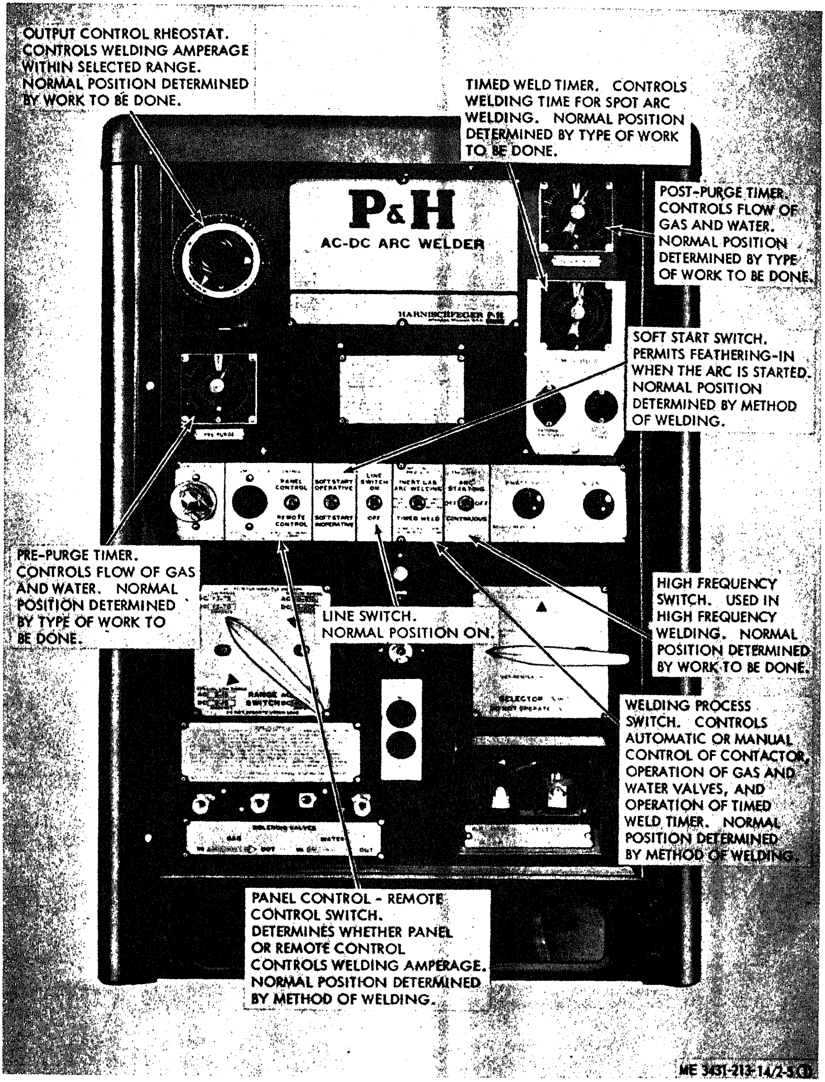
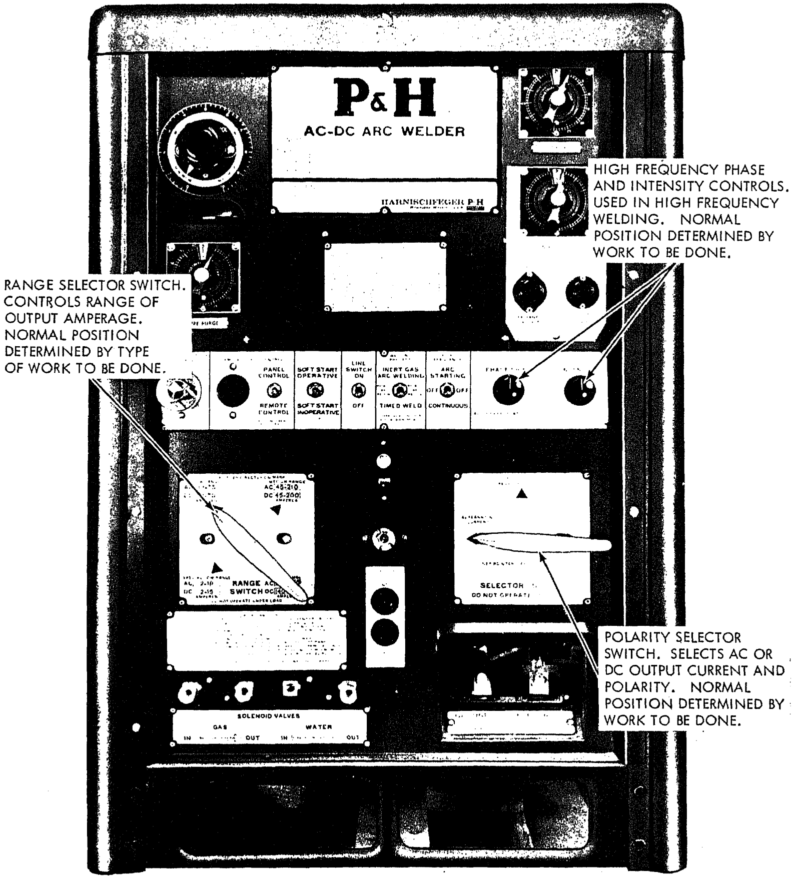

OUTPUT CONTROL RHEOSTAT. CONTROLS WELDING AMPERAGE WITHIN SELECTED RANGE. NORMAL POSITION DETERMINED BY WORK TO BE DONE.
TIMED WELD TIMER. CONTROLS WELDING TIME FOR SPOT ARC WELDING. NORMAL POSITION DETERMINED BY TYPE OF WORK TO BE DONE.
P&H
AC-DC ARC WELDER
HARNISCHFEGER P&H
POST-PURGE TIMER. CONTROLS FLOW OF GAS AND WATER. NORMAL POSITION DETERMINED BY TYPE OF WORK TO BE DONE.
SOFT START SWITCH. PERMITS FEATHERING-IN WHEN THE ARC IS STARTED. NORMAL POSITION DETERMINED BY METHOD OF WELDING.
PRE-PURGE
PANEL CONTROL
REMOTE CONTROL
SOFT START OPERATIVE
SOFT START INOPERATIVE
LINE SWITCH ON
OFF
INERT GAS ARC WELDING
TIMED WELD
CONTINUOUS
PRE-PURGE TIMER. CONTROLS FLOW OF GAS AND WATER. NORMAL POSITION DETERMINED BY TYPE OF WORK TO BE DONE.
LINE SWITCH. NORMAL POSITION ON.
HIGH FREQUENCY SWITCH. USED IN HIGH FREQUENCY WELDING. NORMAL POSITION DETERMINED BY WORK TO BE DONE.
RANGE SWITCH
SELECTOR
WELDING PROCESS SWITCH. CONTROLS AUTOMATIC OR MANUAL CONTROL OF CONTACTOR, OPERATION OF GAS AND WATER VALVES, AND OPERATION OF TIMED WELD TIMER. NORMAL POSITION DETERMINED BY METHOD OF WELDING.
SOLENOID VALVES
GAS
WATER
IN
OUT
IN
OUT
PANEL CONTROL - REMOTE CONTROL SWITCH. DETERMINES WHETHER PANEL OR REMOTE CONTROL CONTROLS WELDING AMPERAGE. NORMAL POSITION DETERMINED BY METHOD OF WELDING.
ME 3431-213-14/2-5①

Figure 2–5①. Controls, Model 2100H2007.



HIGH FREQUENCY PHASE AND INTENSITY CONTROLS. USED IN HIGH FREQUENCY WELDING. NORMAL POSITION DETERMINED BY WORK TO BE DONE.

RANGE SELECTOR SWITCH. CONTROLS RANGE OF OUTPUT AMPERAGE. NORMAL POSITION DETERMINED BY TYPE OF WORK TO BE DONE.

POLARITY SELECTOR SWITCH. SELECTS AC OR DC OUTPUT CURRENT AND POLARITY. NORMAL POSITION DETERMINED BY WORK TO BE DONE.

ME 3431-213-14/2-5 ②

*Figure 2-5*②—Continued.

Section IV. OPERATING UNDER USUAL CONDITIONS

2–9. General

a. The instructions in this section are published for the information and guidance of the personnel responsible for operation of the welding machine.

b. The operator must know how to perform every operation of which the welding machine is capable. This section gives instructions on starting and stopping the welding machine, basic capabilities of the welding machine, and various settings of controls to enable the welding machine to perform different types of welding for which it is designed. Since nearly every job presents a different problem, the operator may have to vary given procedures to fit the individual job.

2–10. Starting

a. Preparation for Starting.

(1) Perform the necessary daily preventive maintenance checks and services (para 3–5).

(2) Clean area on item to be welded to make a good connection.

(3) Connect the ground clamp.

b. Starting. Refer to figures 2–6 and 2–7 and start the welding machine.

2–11. Stopping

a. Refer to figures 2–8 and 2–9 and stop the welding machine.

b. Remove ground clamp from item which was being welded.

2–12. Operation of Equipment

a. Start the welding machine (para 2–10).

b. Refer to table 2–1 and select the proper electrode.

Table 2–1. Electrode Size for Applied Current

Tungsten electrode size (diameter)	Welding current (amp)
0.040 in.	40–60
3/32 in.	50–100
1/16 in.	100–160
1/8 in.	150–210
5/32 in.	200–275
3/16 in.	250–350
1/4 in.	325–475

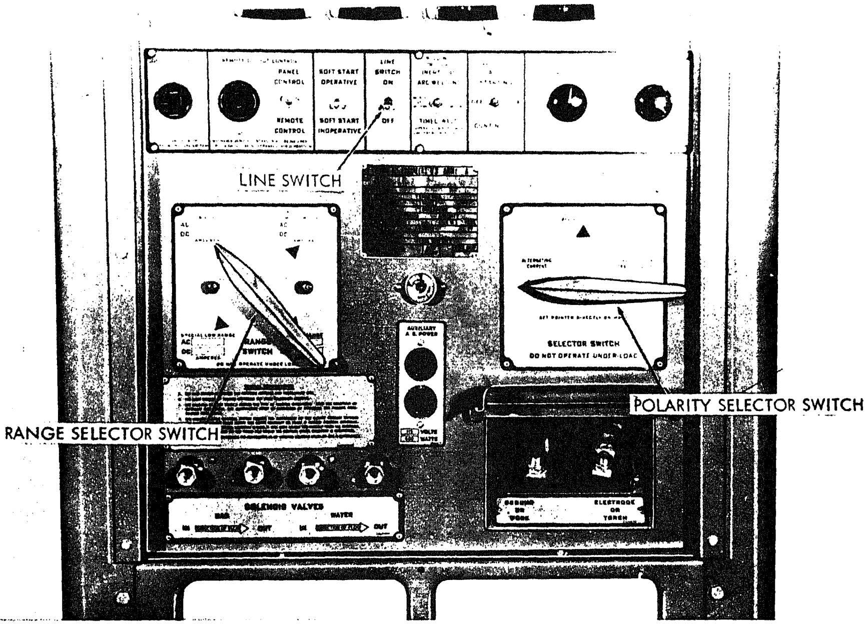
c. Test for proper setting. Use a sample piece of metal, like the metal to be welded and adjust the welding amperage to produce the correct arc necessary for the welding to be done.

Warning: **Do not come in contact with the electrode while the welding machine is operating. The high voltage generated by the machine can cause death by electrocution.**

d. Refer to figures 2–10 and 2–11 and operate the welding machine.

Warning: **Before operating the welding machine see that the ground terminal lug is connected through the input cable or by separate conductor to the power system ground. An ungrounded welding machine can cause death by electrocution to personnel coming in contact with it.**

Note. This welding machine is equipped with a remote receptacle and can be operated by remote control. When using remote control, the panel control-remote control switch must be in the remote control position. When remote control is used, the maximum current available will be limited by the setting of the output panel rheostat. If full range is necessary, the panel output control rheostat must be set wide open. The welding machine is also equipped with a remote contactor control receptacle for activation of the contactor by a foot switch and a remote contactor receptacle for activation of the contactor by an external 115 volt ac source.



TEP 1. MAKE SURE THAT EXTERNAL POWER IS CONNECTED TO THE WELDING MACHINE.

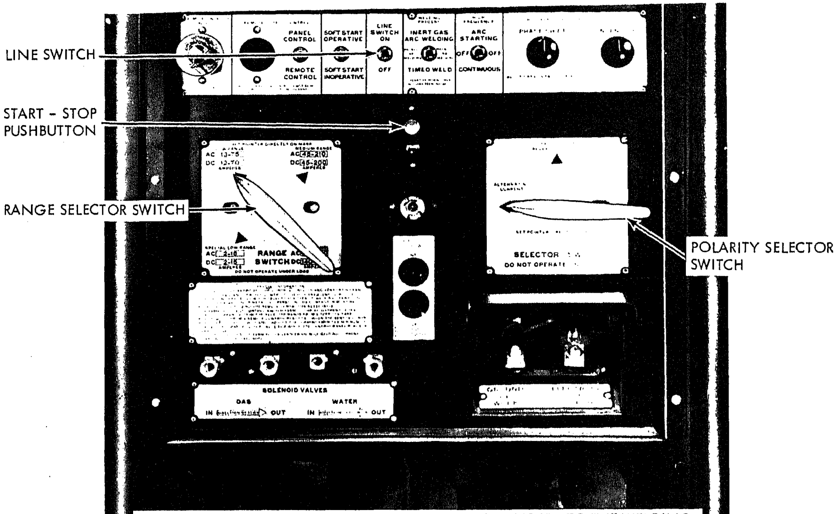
TEP 2. MAKE SURE THAT GAS AND WATER ARE CONNECTED TO THE WELDING MACHINE IF INERT GAS WELDING IS TO BE DONE.

TEP 3. PLACE RANGE SELECTOR SWITCH AND POLARITY SELECTOR SWITCH IN DESIRED POSITION.

TEP 4. PLACE LINE SWITCH IN ON POSITION TO START THE WELDING MACHINE.

ME 3431-213-14/2-6

Figure 2–6. Starting the welding machine, Model DAR–300HFSG.



STEP 1. MAKE SURE THAT EXTERNAL POWER IS CONNECTED TO THE WELDING MACHINE.

STEP 2. MAKE SURE THAT GAS AND WATER ARE CONNECTED TO THE WELDING MACHINE IF INERT GAS WELDING IS TO BE DONE.

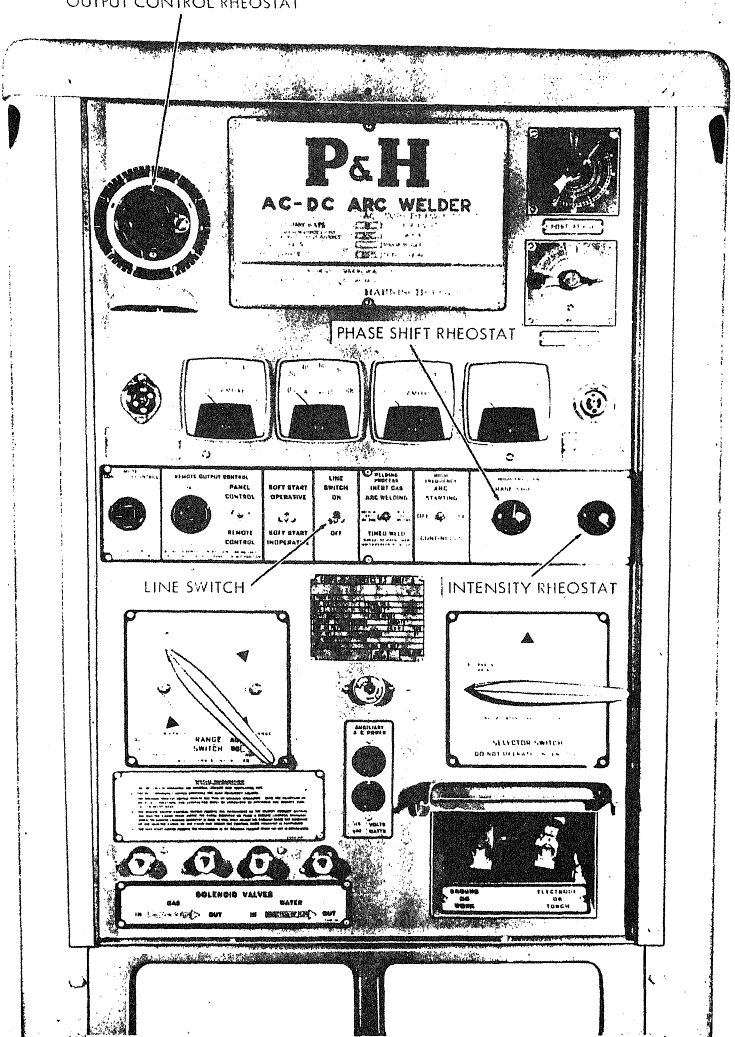
STEP 3. PLACE RANGE SELECTOR SWITCH AND POLARITY SELECTOR SWITCH IN THE DESIRED POSITIONS.

STEP 4. PLACE LINE SWITCH IN ON POSITION.

STEP 5. DEPRESS START PUSHBUTTON TO START THE WELDING MACHINE.

ME 3431-213-14/2-7

Figure 2–7. Starting the welding machine, Model 2100H2007.

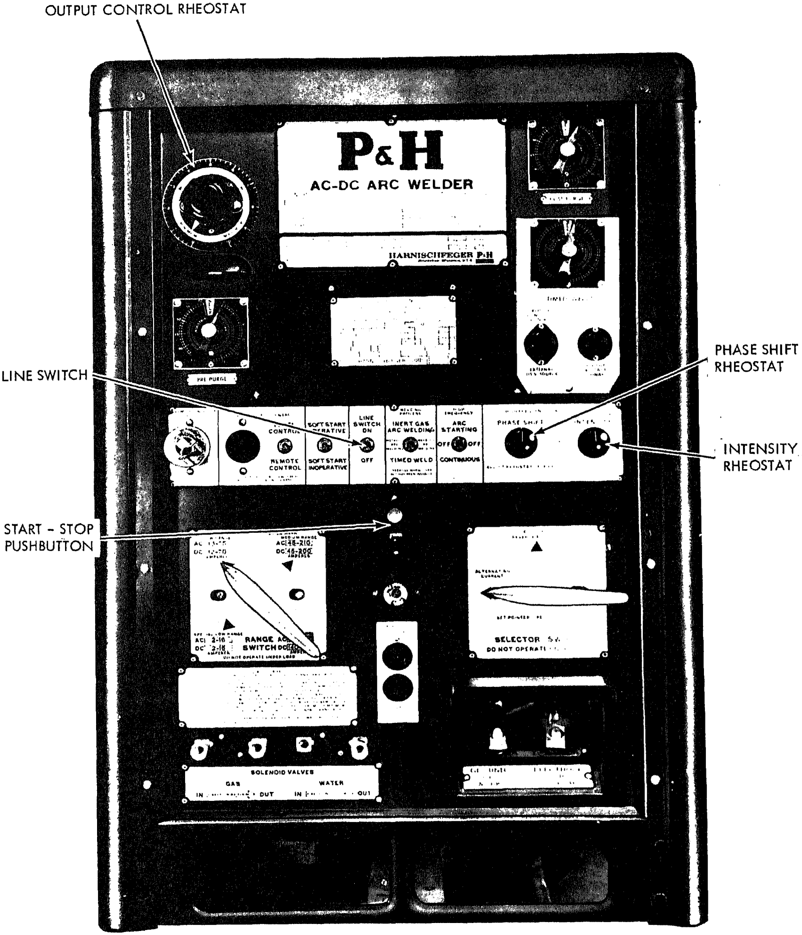


STEP 1. TURN OUTPUT CONTROL RHEOSTAT, PHASE SHIFT RHEOSTAT, AND INTENSITY RHEOSTAT COUNTERCLOCKWISE UNTIL THEY STOP.

STEP 2. PLACE LINE SWITCH IN OFF POSITION TO STOP THE WELDING MACHINE.

ME 3431-213-14/2-8

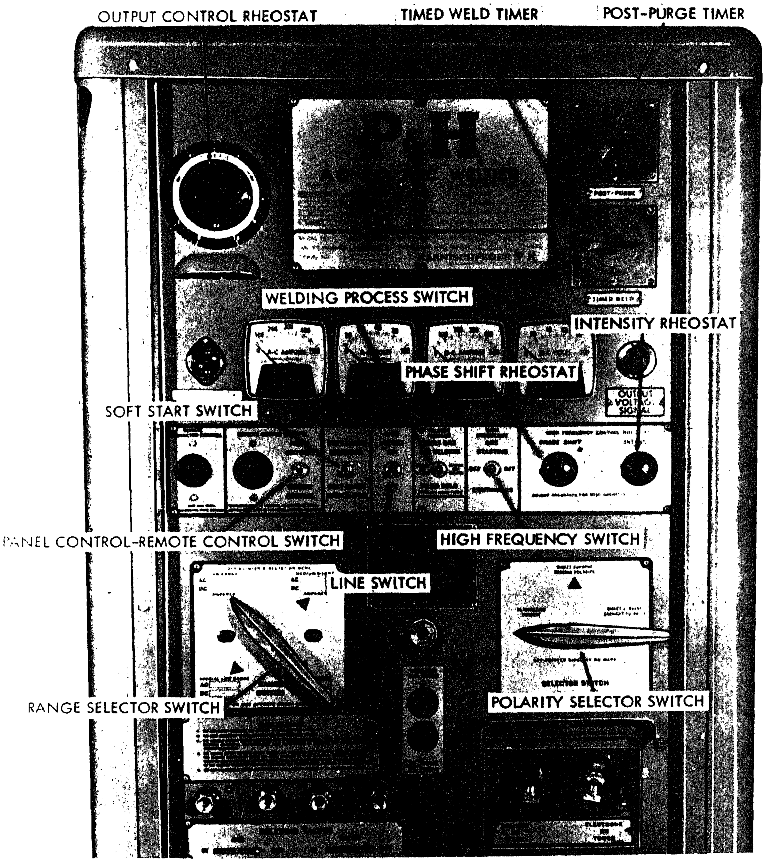
Figure 2–8. Stopping the welding machine, Model DAR–300HFSG.



STEP 1. TURN OUTPUT CONTROL RHEOSTAT, PHASE SHIFT RHEOSTAT, AND INTENSITY RHEOSTAT COUNTERCLOCKWISE UNTIL THEY STOP.
STEP 2. DEPRESS THE STOP PUSHBUTTON TO STOP THE WELDING MACHINE.
STEP 3. PLACE LINE SWITCH IN OFF POSITION.

ME 3431-213-14/2-9

Figure 2–9. Stopping the welding machine, Model 2100H2007.



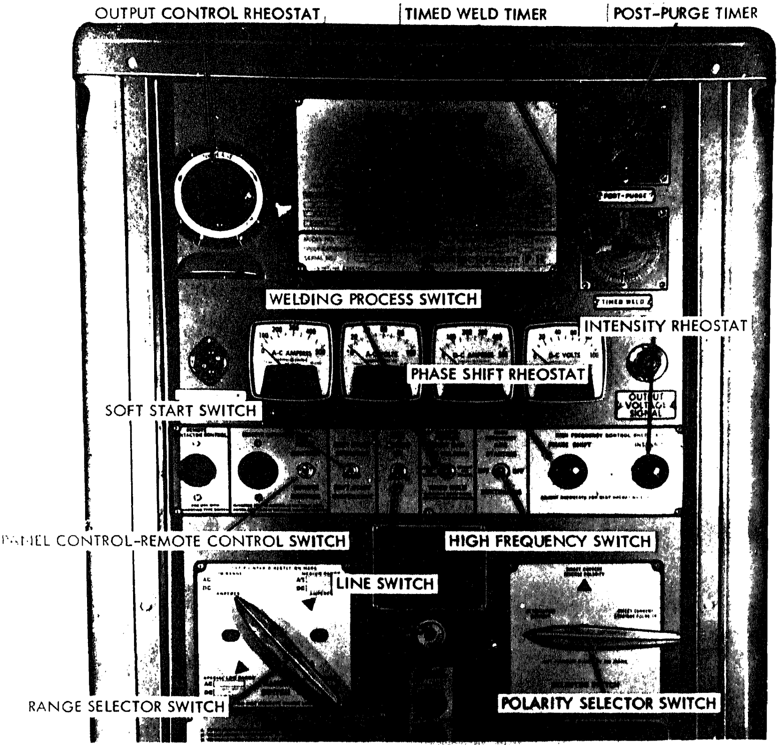
A. METALLIC WELDING

STEP 1. PLACE WELDING PROCESS SWITCH IN METALLIC ARC WELDING POSITION.
STEP 2. PLACE HIGH FREQUENCY SWITCH IN OFF POSITION.
STEP 3. PLACE SOFT START SWITCH IN INOPERATIVE POSITION.
STEP 4. DETERMINE WELDING RANGE BY SIZE OF WORK TO BE DONE AND SELECT THE PROPER ELECTRODE SIZE. PLACE RANGE SELECTOR SWITCH IN POSITION FOR PROPER RANGE.
STEP 5. PLACE POLARITY SELECTOR SWITCH IN POSITION IN ACCORDANCE WITH TYPE OF WELDING TO BE DONE AND TYPE OF ELECTRODE USED.
STEP 6. ADJUST OUTPUT CONTROL RHEOSTAT FOR CURRENT DESIRED WITHIN THE SELECTED RANGE.
STEP 7. OPERATE THE WELDING MACHINE.

ME 3431-213-14/2-10 ①

Figure 2-10①. Welding machine operation, Model DAR-300HFSG.

NOTE: FOR SPOT ARC WELDING, PLACE WELDING PROCESS SWITCH IN TIMED WELD POSITION, SET THE TIMED WELD TIMER TO THE DESIRED SETTING (0 TO 6 SECONDS), AND FOLLOW STEPS 2 THROUGH 11.

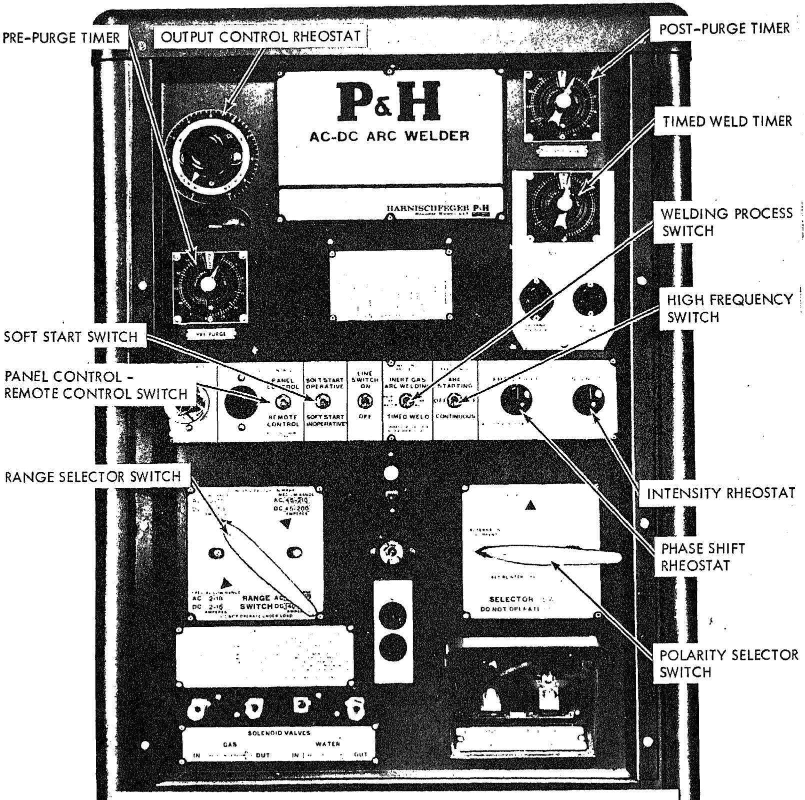


B. INERT GAS ARC WELDING

STEP 1. PLACE WELDING PROCESS SWITCH IN INERT GAS POSITION.
STEP 2. TURN ON SOURCES OF GAS AND WATER.
STEP 3. PLACE HIGH FREQUENCY SWITCH IN POSITION DESIRED.
STEP 4. PLACE SOFT START SWITCH IN OPERATIVE POSITION ONLY IF FEATHERING-IN IS DESIRED AT THE TIME THE ARC IS STARTED. OTHERWISE, PLACE SOFT START SWITCH IN INOPERATIVE POSITION.
STEP 5. DETERMINE WELDING RANGE BY SIZE OF WORK TO BE DONE AND SELECT THE PROPER ELECTRODE SIZE. PLACE RANGE SELECTOR SWITCH IN POSITION FOR PROPER RANGE.
STEP 6. PLACE POLARITY SELECTOR SWITCH IN POSITION IN ACCORDANCE WITH TYPE OF WELDING TO BE DONE AND TYPE OF ELECTRODE USED.
STEP 7. SET POST-PURGE TIMER FOR PERIOD OF TIME DESIRED FOR FLOW OF GAS AND WATER AFTER THE ARC IS DISCONTINUED.
STEP 8. PLUG THE FOOT SWITCH INTO THE SHORTING TYPE SWITCH REMOTE CONTACTOR CONTROL RECEPTACLE.
STEP 9. ADJUST OUTPUT CONTROL RHEOSTAT FOR CURRENT DESIRED WITHIN THE SELECTED RANGE.
STEP 10. ADJUST PHASE SHIFT RHEOSTAT AND INTENSITY RHEOSTAT FOR BEST OPERATING CONDITIONS.
STEP 11. OPERATE THE WELDING MACHINE.

ME 3431-213-14/2-10 ②

*Figure 2-10*②—Continued.



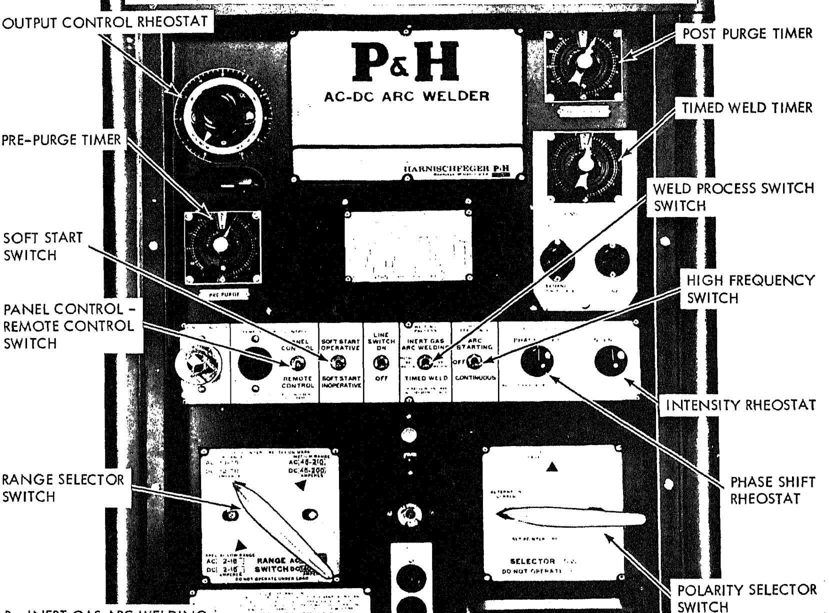
A. METALLIC WELDING

STEP 1. PLACE WELDING PROCESS SWITCH IN METALLIC ARC WELDING POSITION.
STEP 2. PLACE HIGH FREQUENCY SWITCH IN OFF POSITION.
STEP 3. PLACE SOFT START SWITCH IN INOPERATIVE POSITION.
STEP 4. DETERMINE WELDING RANGE BY SIZE OF WORK TO BE DONE AND SELECT THE PROPER ELECTRODE SIZE. PLACE RANGE SELECTOR SWITCH IN POSITION FOR PROPER RANGE.
STEP 5. PLACE POLARITY SELECTOR SWITCH IN POSITION IN ACCORDANCE WITH TYPE OF WELDING TO BE DONE AND TYPE OF ELECTRODE USED.
STEP 6. ADJUST OUTPUT CONTROL RHEOSTAT FOR CURRENT DESIRED WITHIN THE SELECTED RANGE.
STEP 7. OPERATE THE WELDING MACHINE.

ME 3431-213-14/2-11 ①

Figure 2-11①. Welding machine operation, Model 2100H2007.

NOTE: FOR SPOT ARC WELDING, PLACE WELDING PROCESS SWITCH IN TIMED WELD POSITION, SET THE TIMED WELD TIMER TO THE DESIRED SETTING (0 TO 6 SECONDS), AND FOLLOW STEPS 2 THROUGH 11.



B. INERT GAS ARC WELDING

STEP 1. PLACE WELDING PROCESS IN INERT GAS POSITION.
STEP 2. TURN ON SOURCES OF GAS AND WATER.
STEP 3. PLACE HIGH FREQUENCY SWITCH IN POSITION DESIRED.
STEP 4. PLACE SOFT START SWITCH IN OPERATIVE POSITION ONLY IF FEATHERING-IN IS DESIRED AT THE TIME THE ARC IS STARTED. OTHERWISE, PLACE SOFT START SWITCH IN INOPERATIVE POSITION.
STEP 5. DETERMINE WELDING RANGE BY SIZE OF WORK TO BE DONE AND SELECT THE PROPER ELECTRODE SIZE. PLACE RANGE SELECTOR SWITCH IN POSITION FOR PROPER RANGE.
STEP 6. PLACE POLARITY SELECTOR SWITCH IN POSITION IN ACCORDANCE WITH TYPE OF WELDING TO BE DONE AND TYPE OF ELECTRODE USED.
STEP 7. SET PRE-PURGE TIMER FOR PERIOD OF TIME DESIRED FOR FLOW OF GAS AND WATER BEFORE THE ARC IS ESTABLISHED.
STEP 8. SET POST-PURGE TIMER FOR PERIOD OF TIME DESIRED FOR FLOW OF GAS AND WATER AFTER THE ARC IS DISCONTINUED.
STEP 9. ADJUST OUTPUT CONTROL RHEOSTAT FOR CURRENT DESIRED WITHIN THE SELECTED RANGE.
STEP 10. ADJUST PHASE SHIFT RHEOSTAT AND INTENSITY RHEOSTAT FOR BEST OPERATING CONDITIONS.
STEP 11. PLUG THE FOOT CONTROL INTO THE REMOTE OUTPUT CONTROL AND REMOTE CONTACTOR CONTROL RECEPTACLES.
STEP 12. OPERATE THE WELDING MACHINE.

ME 3431-213-14/2-11 ②

*Figure 2-11*②—Continued.

2–13. Operation in Extreme Cold (below 0° F.)

a. Frequently inspect for frozen water pipes or lines.

b. If freezing is evident, disconnect water system from the welding machine and use only for regular arc welding.

2–14. Operation in Extreme Heat

Make sure that the welding machine has adequate ventilation.

2–15. Operation in Dusty or Sandy Areas

a. Keep dust and sand cleaned from welding machine as much as possible.

b. If dust or sand is blowing, provide a panel or shelter to give as much protection as possible to the welding machine.

c. Keep welding machine covered when not in use.

2–16. Operation Under Rainy or Humid Conditions

a. Provide as much protection as possible to keep rain from getting into the welding machine.

b. Keep the welding machine covered when not in use.

c. If water gets into the high frequency components, remove the rear shrouds and dry the high frequency components thoroughly.

***Warning:* Be extra careful when the unit or surrounding area is damp or wet. Coming in contact with a wet or damp unit can cause a serious electrical shock and possible death.**

2–17. Operation in Salt Water Area

a. Keep the welding machine protected as much as possible but do not block ventilation.

b. Inspect all connections, terminals, and fittings for corrosion.

c. Keep welding machine covered when not in use.

CHAPTER 3

OPERATOR AND ORGANIZATIONAL MAINTENANCE INSTRUCTIONS

Section I. OPERATOR'S AND ORGANIZATIONAL MAINTENANCE REPAIR PARTS, TOOLS, AND EQUIPMENT

3–1. Tools and Equipment

a. Tools and repair parts issued with or authorized for the welding machine are listed in the Basic Issue Items List, Appendix B.

b. No special tools or equipment are required by the operator or organizational maintenance personnel for the maintenance of this welding machine.

3–2. Organizational Maintenance Repair Parts

Organizational maintenance repair parts are listed and illustrated in Appendix D of this manual.

Section II. LUBRICATION

3–3. General Lubrication Information

No lubrication is required for maintenance of this welding machine.

Section III. PREVENTIVE MAINTENANCE CHECKS AND SERVICES

3–4. General

To insure that the welding machine is ready for operation at all times, it must be inspected systematically, so that defects may be discovered and corrected before they result in serious damage or failure. The necessary preventive maintenance checks and services to be performed are listed and described in paragraphs 3–5 and 3–6. The item numbers indicate the sequence of minimum inspection requirements. Defects discovered during operation of the unit shall be noted for future correction, to be made as soon as operation has ceased. Stop operation immediately if a deficiency is noticed during operation which would damage the equipment if operation were continued. All deficiencies and shortcomings will be recorded together with the corrective action taken on DA Form 2404 (Equipment Inspection and Maintenance Worksheet) at the earliest possible opportunity.

3–5. Daily Preventive Maintenance Checks and Services

Refer to table 3–1 for the daily preventive maintenance checks and services which must be performed by the operator. The item numbers are listed consecutively and indicate the sequence of minimum requirements.

3–6. Quarterly Preventive Maintenance Checks and Services

a. Refer to table 3–1 for the quarterly preventive maintenance services which must be performed by organizational personnel. The item numbers are listed consecutively and indicate the sequence of minimum requirements.

b. A quarterly interval is equal to 3 calendar months, or 250 hours of operation, whichever occurs first.

Table 3–1. Preventive Maintenance Checks and Services

Item number	Interval						B—Before operation D—During operation	A—After operation W—Weekly	M—Monthly Q—Quarterly
	Operator				Org.				
		Daily			M	Q	Item to be inspected	Procedure	Reference
	B	D	A	W					
1	X		X				Shroud	Clean a dirty shroud.	
2	X	X				X	Controls and Instruments.	Inspect for damage and loose mountings. With unit operating, inspect for improper operation. Open circuit voltage should be 75 volts AC or 68 volts DC.	
3	X						Fuse	Inspect for a defective fuse.	
4	X					X	Ground Terminal	Inspect for proper ground. A proper ground will consist of a ¾ inch-dia hollow or ⅝ inch-dia solid rod 9 feet long. The cable will be No. 6AWG or manufacturer specified wire size bolted or clamped to the rod and attached to the ground terminal of the welder.	
5	X					X	Switches	Inspect for loose mounting.	
6	X		X				Inert Gas Arc Welding Connections.	Inspect for gas leaks. A spark generated by unit can cause an explosion.	
7	X					X	Receptacles	Inspect for damaged and loose hardware.	
8	X					X	Electrical Leads	Inspect for loose connections. Replace broken or frayed leads.	Refer to DS and GS Maintenance.
9						X	Rectifier	Inspect for loose connections and damage. Replace a defective switch.	Refer to DS and GS Maintenance.
10						X	Thermostat Switch	Inspect for loose electrical connections and improper operation. Replace a defective switch.	3–21
11						X	Fan Assembly	Clean a dirty fan. Tighten loose electrical connections and loose mountings. Replace a defective motor or bent fan.	3–29
12						X	Contactor	Inspect for loose electrical connections. Replace a defective connector.	3–20
13						X	Reactors	Inspect for loose connections and damage. Replace a defective reactor.	Refer to DS and GS Maintenance.
14						X	Solenoid Valve and Connections.	Inspect for loose electrical connections. Inspect solenoid for improper operation. Replace a defective solenoid. Inspect for leaks at gas connections. Leaking gas can cause an explosion.	3–27
15						X	Spark Gap Assembly	Inspect for loose electrical connections. Inspect for proper gap adjustment of 0.006 inches. Replace spark gap assembly if contacts are pitted or burned.	3–23
16						X	Transformer	Inspect for loose connections and damage. Replace a defective transformer.	Refer to DS and GS Maintenance.
17	X					X	Mounting Hardware	Inspect for loose or missing hardware. Tighten or replace hardware.	

Section IV. OPERATOR'S MAINTENANCE

3–7. General

The instructions in this section are published for the information and guidance of the operator to maintain the welding machine.

3–8. Fuse Replacement

Remove and replace a defective fuse as necessary. Refer to figures 3–4 and 3–5.

3–9. Remove Rheostat and Cable Assembly Replacement

Replace a defective remote rheostat and cable assembly as necessary.

3–10. Foot Switch and Cable Assembly Replacement

Replace a defective foot switch and cable assembly as necessary.

Section V. TROUBLESHOOTING

3–11. General

This section provides information useful in diagnosing and correcting unsatisfactory operation or failure of the welding machine and its components. Each malfunction stated is followed by a list of probable causes of trouble. The corrective action recommended is described opposite the probable cause. Malfunctions which may occur are listed in table 3–2.

Table 3–2. Troubleshooting

Malfunction	Probable cause	Corrective action
1. Welding Machine Fails to Start	*a.* Contactor inoperative	*a.* Replace contactor (para 3–20).
	b. Line switch defective	*b.* Replace switch (para 3–15).
2. Cooling Fan Does Not Operate	*a.* Lead broken or terminal loose	*a.* Repair or tighten terminal (para 3–28).
	b. Fan motor defective	*b.* Replace motor (para 3–28).
3. Fan Assembly is Noisy	*a.* Mounting hardware loose	*a.* Tighten mounting hardware (para 3–29).
	b. Fan blade loose	*b.* Tighten fan blade setscrew (para 3–28).
4. Gas Insufficient	*a.* Lines or fittings clogged with dirt or foreign matter.	*a.* Remove and clean lines and fittings (para 3–26).
	b. Solenoid defective	*b.* Replace solenoid (para 3–26).
5. Water Insufficient	*a.* Lines or fittings clogged with dirt or foreign matter.	*a.* Remove and clean lines and fittings (para 3–26).
	b. Solenoid defective	*b.* Replace solenoid (para 3–26).
6. Welding Machine Operates Erratically.	Spark gap improperly adjusted	Clean adjusting screws and adjust spark gap (para 3–22).
7. Remote Controls Do Not Function Properly.	*a.* Wires loose at receptacle	*a.* Tighten wires (para 3–18).
	b. Receptacle defective	*b.* Replace receptacle (para 3–18).
	c. Foot switch defective	*c.* Replace switch (para 3–10).
	d. Remote output control rheostat defective.	*d.* Replace rheostat (para 3–9).
8. Contactor Breaks Circuit	Thermostatic switch or switches defective	Replace switch or switches (para 3–21).
9. No Current Control	Panel control-remote control switch not in correct position.	Place switch in correct position (para 2–12).
10. Welder Fails to Maintain Arc	*a.* Loose electrical connections	*a.* Tighten any loose electrical connections (refer to DS Maintenance).
	b. Improper ground connection on work	*b.* Tighten ground clamp or make sure grounding is free from excessive dirt and grease (para 2–10).
11. Welder Fails to Start on Arc	*a.* Low open circuit voltage indicated on voltmeter.	*a.* Check voltage change terminal connecting links with wiring diagram and line supply (para 2–10).
	b. Improper ground connection on work	*b.* Tighten ground clamp or make sure grounding is free of excessive dirt and grease (para 2–10).
	c. Faulty thermostatic switch or switches	*c.* Replace switch or switches (para 3–21).
12. Welder Arc Is Loud and Spatters Excessively.	*a.* Current output too high	*a.* Adjust output control rheostat or select lower range (para 2–12).
	b. Reversed dc polarity	*b.* Change polarity or use electrode of opposite polarity (para 2–12).

Section VI. WELDING MACHINE TOP, SHROUDS AND PANEL

3–12. General

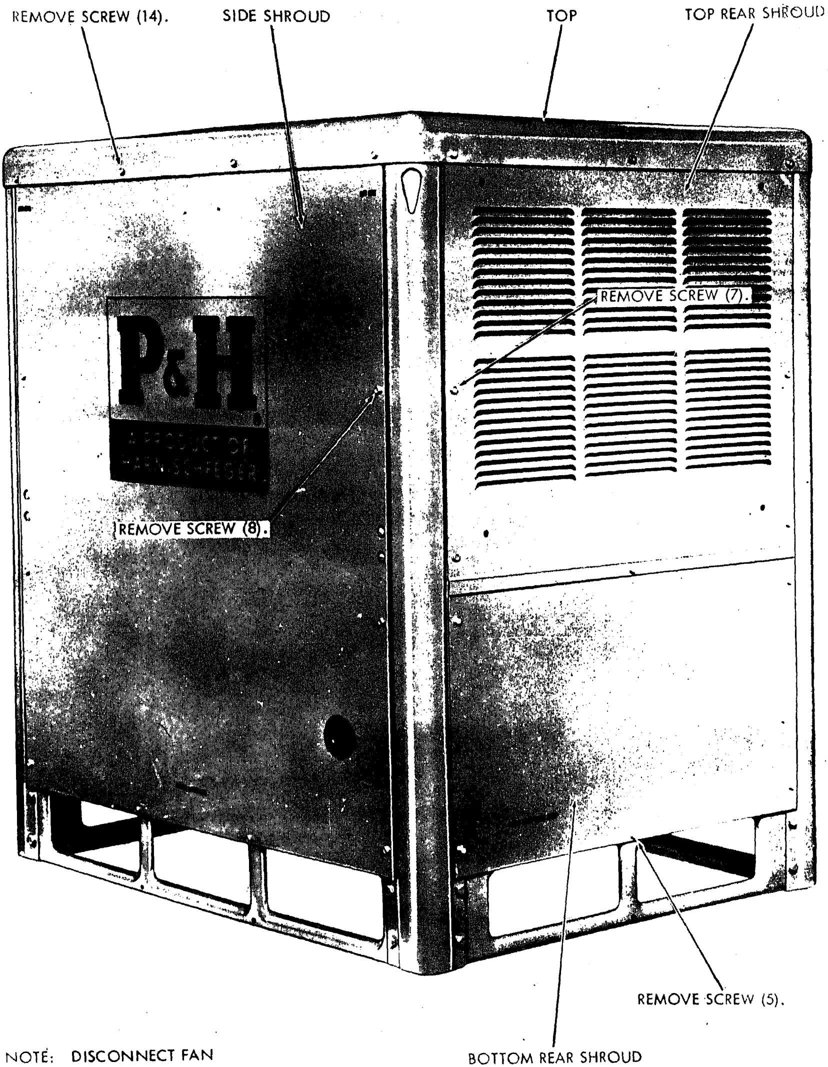
The welding machine is constructed of a heavy metal top, side shrouds, top and bottom rear shrouds, and a front panel. The front panel is also a control panel. These enclosing sheet metal components are attached to a frame, consisting of a base, corner uprights, and side rails.

3–13. Welding Machine Top and Shrouds

a. Removal.

(1) Refer to figure 3–1 and remove the welding machine top, bottom rear, and side shrouds.

(2) Refer to figure 3–1 and remove the top rear shroud with the fan, motor, and guard assembly.



NOTE: DISCONNECT FAN MOTOR LEADS FROM CONTROL TRANSFORMER.

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removal and installation

(3) Remove the fan, motor, and guard assembly from the top rear shroud (para 3–28).

b. Cleaning and Inspection.

(1) Clean all parts with an approved cleaning solvent and dry thoroughly.

(2) Inspect all parts for rips, distortion, elongated mounting holes, or other damage.

(3) Replace a defective part as necessary.

c. Installation.

(1) Attach the fan, motor, and guard assembly to the top rear shroud (para 3–28).

(2) Refer to figure 3–1 and install the top rear shroud with the fan, motor, and guard assembly.

(3) Refer to figure 3–1 and install the welding machine top, bottom rear and side shrouds.

Section VII. CONTROLS AND INSTRUMENTS

3–14. General

a. Model DAR–300HFSG, the toggle switches control the panel or remote output control section, soft start operation, line power, welding process selection, and high frequency operation. The timers control the postflow of gas and water, the preflow of gas and water, and timed weld duration. The ammeters and voltmeters indicate load current output and arc voltage. The receptacles permit connection of an external 115 volt ac remote control, a shorting type switch remote contactor control, a remote output control rheostat, an output voltage signal control, and 115 volt ac powered auxiliaries. The auxiliary 115 volt ac circuit is protected by a 5.6 ampere fuse. The contactor is either manually or automatically energized to close the welding circuit. Three thermostatic switches open the welding circuit if the power rectifier, saturable reactor, or stablizing reactor overheat.

b. Model 2100H2007, the preflow of gas and water is controlled by a timer. The welding machine is equipped with a start-stop pushbotton switch, and are not equipped with ammeters or voltmeters.

3–15. Toggle Switches

a. Removal.

(1) Remove the left side shroud (para 3–13).

(2) Refer to figures 3–2 and 3–3 and remove the five toggle switches.

b. Cleaning and Inspection.

(1) Clean the switches with a clean, dry cloth.

(2) Inspect for breaks, cracks, damaged threads, and broken or corroded terminals.

(3) Replace a defective switch as necessary.

c. Installation.

(1) Refer to figures 3–2 and 3–3 and install the five toggle switches.

(2) Install the left side shroud (para 3–13).

3–16. Timers

a. Model DAR–300HFSG.

(1) *Removal.*

(*a*) Remove the right side shroud (para 3–13).

(*b*) Refer to figure 3–2 and remove two timers.

(2) *Cleaning and inspection.*

(*a*) Clean the timers with a clean dry cloth.

(*b*) Inspect for breaks, cracks, and broken or corroded terminals.

(*c*) Replace a defective timer as necessary.

(3) *Installation.*

(*a*) Refer to figure 3–2 and install the two timers.

(*b*) Install the right side shroud (para 3–13).

b. Model 2100H2007.

(1) *Removal.*

(*a*) Remove the side shrouds (para 3–13).

(*b*) Refer to figure 3–3 and remove two timers and the timed weld kit.

(2) *Cleaning and Inspection.*

(*a*) Clean the timers with a clean, dry cloth.

(*b*) Inspect for breaks, cracks, and broken or corroded terminals.

(*c*) Replace a defective timer as necessary.

(3) *Installation.*

(*a*) Refer to figure 3–3 and install two timers and the timed weld kit.

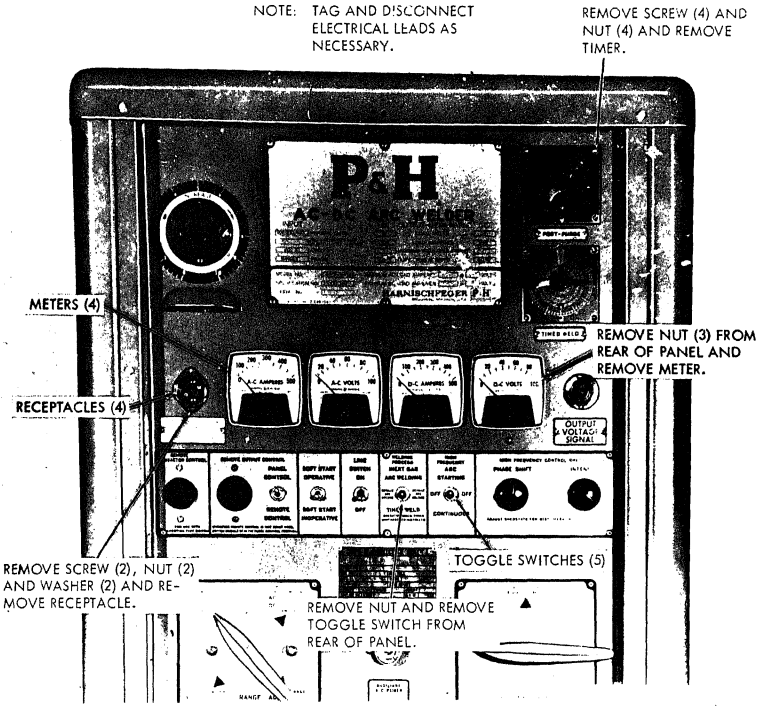
(*b*) Install the side shrouds (para 3–13).

3–17. Meters

a. Removal.

(1) Remove the side shrouds (para 3–13).

(2) Refer to figure 3–2 and remove the four meters.



NOTE: TAG AND DISCONNECT ELECTRICAL LEADS AS NECESSARY.

REMOVE SCREW (4) AND NUT (4) AND REMOVE TIMER.

REMOVE NUT (3) FROM REAR OF PANEL AND REMOVE METER.

REMOVE SCREW (2), NUT (2) AND WASHER (2) AND REMOVE RECEPTACLE.

REMOVE NUT AND REMOVE TOGGLE SWITCH FROM REAR OF PANEL.

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Figure 3–2. Upper control panel components, removal and installation, Model DAR–300HFSG.

b. Cleaning and Inspection.

(1) Clean meter faces with a soft cloth and warm soapy water. Dry with a clean lint-free cloth. Clean the meter backs with a clean, dry cloth.

(2) Inspect for zero position of needle and adjust if necessary. Check for accuracy within one percent. Inspect for breaks, cracks and broken or corroded terminals.

(3) Replace a defective meter as necessary.

c. Installation.

(1) Refer to figure 3–2 and install the four meters.

(2) Install the side shrouds (para 3–13).

3–18. Receptacles and Fuseholder

a. Removal.

(1) Remove the side shrouds (para 3–13).

(2) Refer to figures 3–2 and 3–4 and remove the five receptacles and fuseholder.

b. Cleaning and Inspection.

(1) Clean receptacles and fuseholder with a clean, dry cloth.

(2) Inspect for breaks, cracks, corrosion, defective contacts, and other damage.

c. Installation.

(1) Refer to figures 3–2 and 3–4 and install the five receptacles and fuseholder.

(2) Install the side shrouds (para 3–13).

3–19. Pushbutton, Model 2100H2007

a. Removal.

(1) Remove the right side shroud (para 3–13).

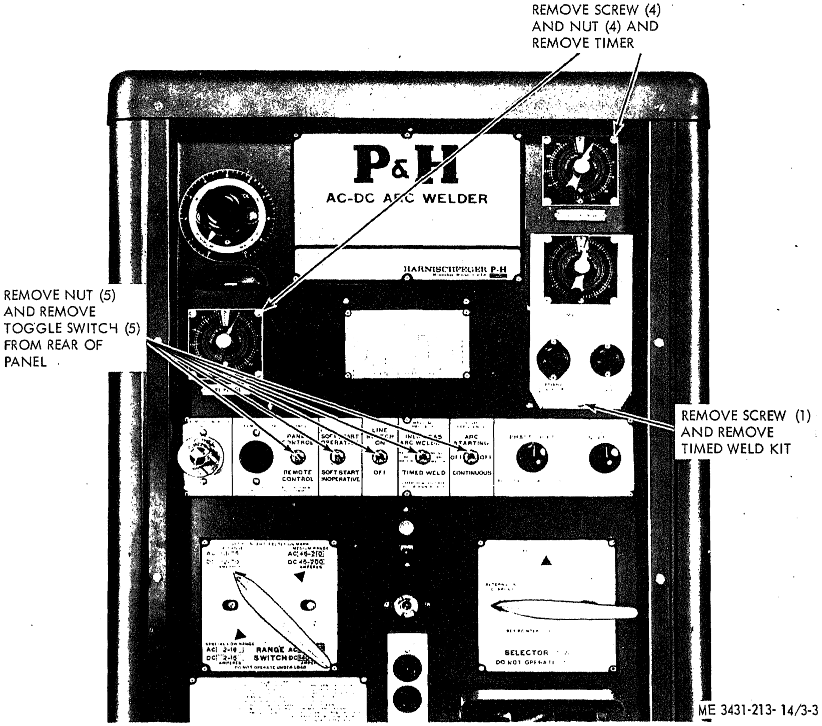


Figure 3–3. Upper control panel components, removal and installation, Model 2100H2007.

(2) Refer to figure 3–5 and remove the pushbutton switch.

b. Cleaning and Inspection.

(1) Clean the switch with a clean, dry cloth.

(2) Inspect for breaks, cracks, corrosion, defective contacts, and other damage.

(3) Replace a defective pushbutton switch as necessary.

c. Installation.

(1) Refer to figure 3–5 and install the pushbutton switch.

(2) Install the right side shroud (para 3–13).

3–20. Contactor

a. Removal.

(1) Remove the right side shroud (para 3–13).

(2) Refer to figure 3–6 and remove the contactor.

b. Cleaning and Inspection.

(1) Clean all parts with a clean, dry, lint-free cloth.

(2) Inspect for breaks, cracks, burned or broken contacts, damaged or corroded terminals, and other damage.

(3) Replace a defective contactor as necessary.

c. Installation.

(1) Refer to figure 3–6 and install the contactor.

(2) Install the right side shroud (para 3–13).

3–21. Thermostatic Switches, Model DAR–300HFSG

a. Removal.

(1) Remove the right side shroud (para 3–13).

b. Cleaning and Inspection.

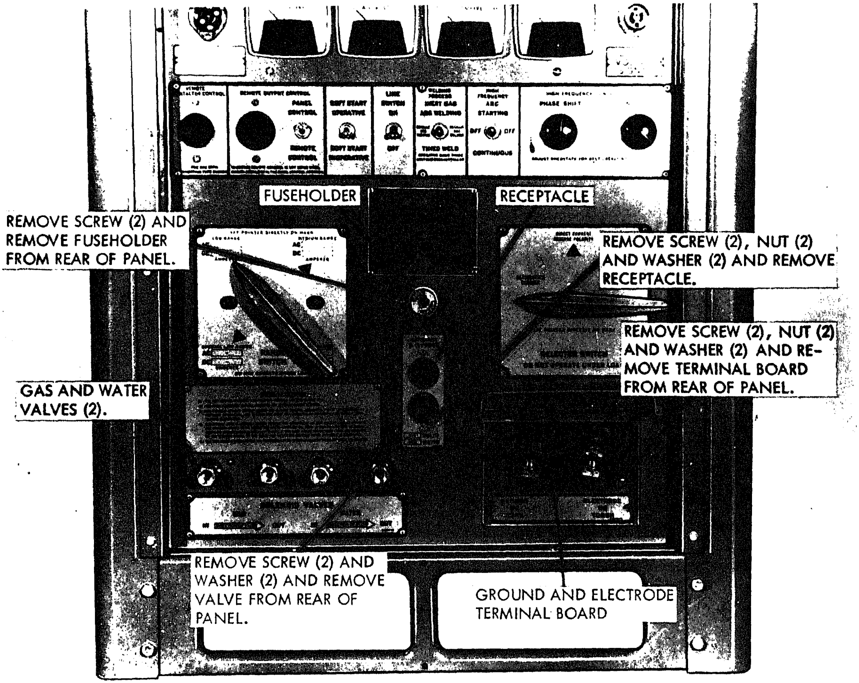
(1) Clean the switch with a clean, dry cloth.

(2) Inspect for broken or bare wires or other damage.

c. Installation.

(1) Refer to figure 3–7 and install the three thermostatic switches.

(2) Install the right side shroud (para 3–13).

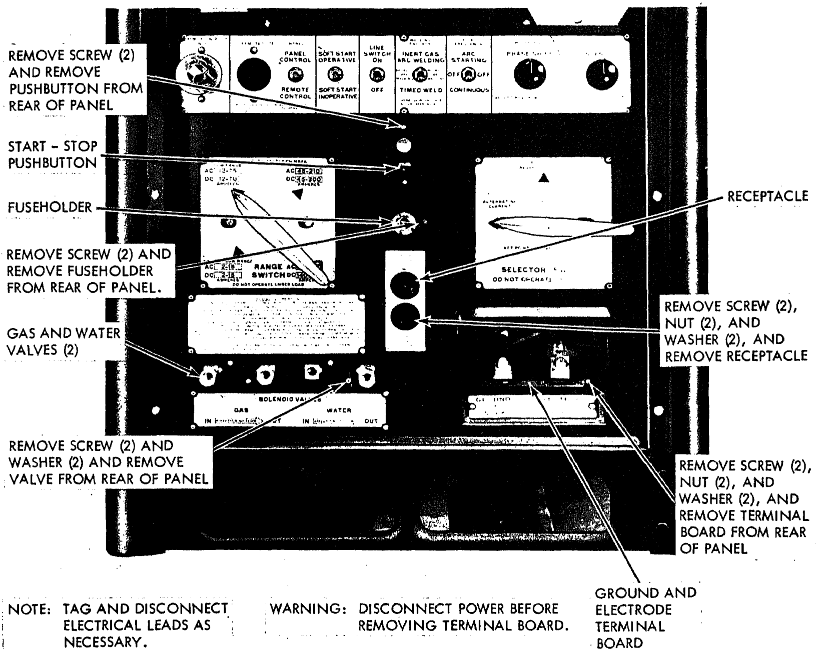

FUSEHOLDER
RECEPTACLE
REMOVE SCREW (2) AND REMOVE FUSEHOLDER FROM REAR OF PANEL.
REMOVE SCREW (2), NUT (2) AND WASHER (2) AND REMOVE RECEPTACLE.
REMOVE SCREW (2), NUT (2) AND WASHER (2) AND RE-MOVE TERMINAL BOARD FROM REAR OF PANEL.
GAS AND WATER VALVES (2).
REMOVE SCREW (2) AND WASHER (2) AND REMOVE VALVE FROM REAR OF PANEL.
GROUND AND ELECTRODE TERMINAL BOARD

NOTE: TAG AND DISCONNECT ELECTRICAL LEADS AS NECESSARY.

WARNING: DISCONNECT POWER BEFORE REMOVING TERMINAL BOARD.

ME 3431-213-14/3-4

Figure 3–4. Lower control panel components, removal and installation, Model DAR–300HFSG.


REMOVE SCREW (2) AND REMOVE PUSHBUTTON FROM REAR OF PANEL
START - STOP PUSHBUTTON
FUSEHOLDER
REMOVE SCREW (2) AND REMOVE FUSEHOLDER FROM REAR OF PANEL.
GAS AND WATER VALVES (2)
REMOVE SCREW (2) AND WASHER (2) AND REMOVE VALVE FROM REAR OF PANEL
RECEPTACLE
REMOVE SCREW (2), NUT (2), AND WASHER (2), AND REMOVE RECEPTACLE
REMOVE SCREW (2), NUT (2), AND WASHER (2), AND REMOVE TERMINAL BOARD FROM REAR OF PANEL
GROUND AND ELECTRODE TERMINAL BOARD
PANEL CONTROL
REMOTE CONTROL
SOFT START OPERATIVE
SOFT START INOPERATIVE
LINE SWITCH ON
OFF
INERT GAS ARC WELDING
TIMED WELD
ARC STARTING
OFF
OFF
CONTINUOUS
RANGE AC SWITCH DC
DO NOT OPERATE UNDER LOAD
SELECTOR
DO NOT OPERATE
SOLENOID VALVES
GAS
WATER
IN
OUT
IN
OUT

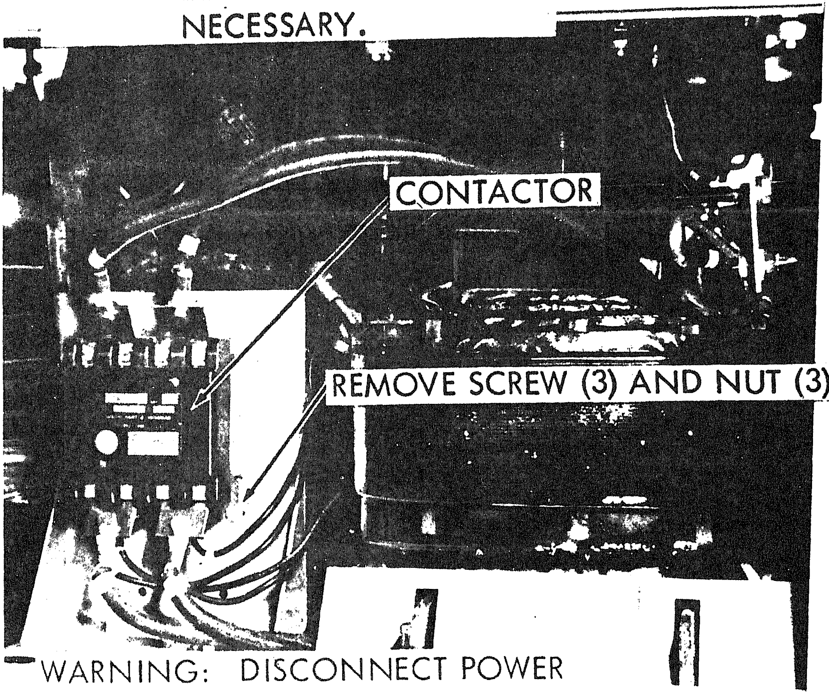
NOTE: TAG AND DISCONNECT ELECTRICAL LEADS AS NECESSARY.

WARNING: DISCONNECT POWER BEFORE REMOVING TERMINAL BOARD.

ME 3431-213-14/3-5

Figure 3-5. Lower control panel components, removal and installation, Model 2100H2007.

NOTE: TAG AND DISCONNECT ELECTRICAL LEADS AS NECESSARY.



WARNING: DISCONNECT POWER BEFORE REMOVING CONTACTOR.

ME 3431-213-14/3-6

Figure 3–6. Contactor, removal and installation.

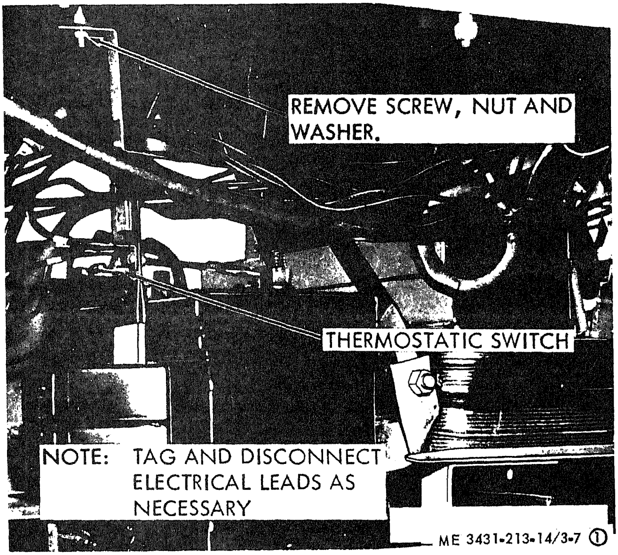
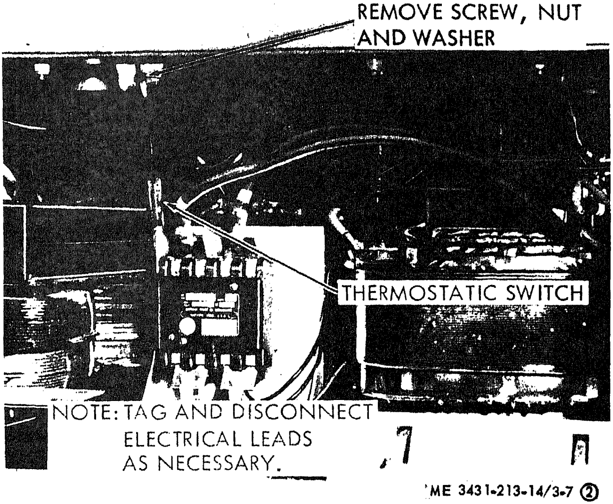

REMOVE SCREW, NUT AND WASHER.
THERMOSTATIC SWITCH
NOTE: TAG AND DISCONNECT ELECTRICAL LEADS AS NECESSARY
ME 3431-213-14/3-7 ①

Figure 3-7①. Thermostatic switches, removal and installation.


REMOVE SCREW, NUT AND WASHER
THERMOSTATIC SWITCH
NOTE: TAG AND DISCONNECT ELECTRICAL LEADS AS NECESSARY.
ME 3431-213-14/3-7 ②

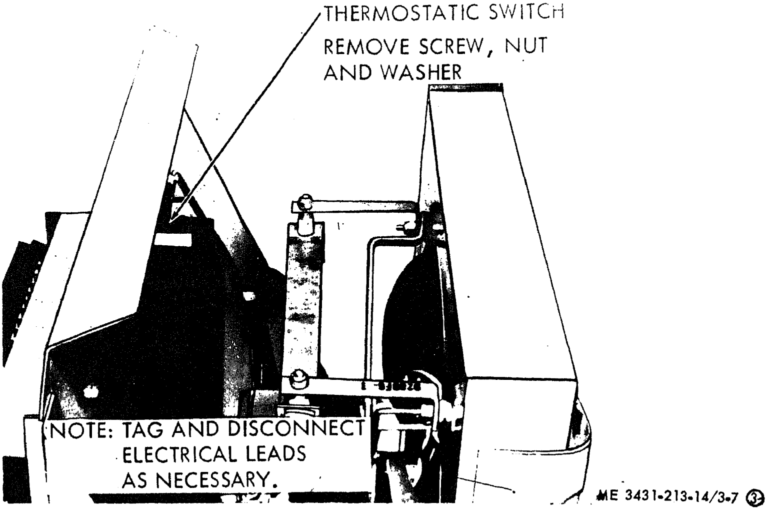

THERMOSTATIC SWITCH
REMOVE SCREW, NUT AND WASHER
NOTE: TAG AND DISCONNECT ELECTRICAL LEADS AS NECESSARY.
ME 3431-213-14/3-7 ③

*Figure 3–7*③—Continued.

Section VIII. SPARK GAP ASSEMBLY, VOLTAGE CHANGE TERMINAL CONNECTING LINKS, AND GROUND AND ELECTRODE TERMINAL BOARD

3–22. General

The primary purpose of the spark gap assembly is to control the stability of the high frequency arc. The purpose of the voltage change terminal connecting links is to allow the welding machine to operate from 208, 230, or 460 volts by the correct changing of the links. The ground and electrode cable terminal lugs are connected by brass nuts to the studs on the ground and electrode terminal broad.

3–23. Spark Gap Assembly

a. Removal.

(1) Remove the right side shroud (para 3–13).

(2) Refer to figure 3–8 and remove the spark gap assembly.

b. Cleaning and Inspection.

(1) Clean all parts with a clean, dry cloth.

(2) Inspect for burned or pitted points, damaged adjusting screws, corroded terminals, and other damage.

(3) Replace a defective spark gap assembly as necessary.

c. Installation.

(1) Refer to figure 3–8 and install the spark gap assembly.

(2) Install the right side shroud (para 3–13).

d. Adjust. Refer to figure 3–8 and adjust the spark gap.

3–24. Voltage Change Terminal Connecting Links

a. Removal.

(1) Remove the bottom rear shroud (para 3–13).

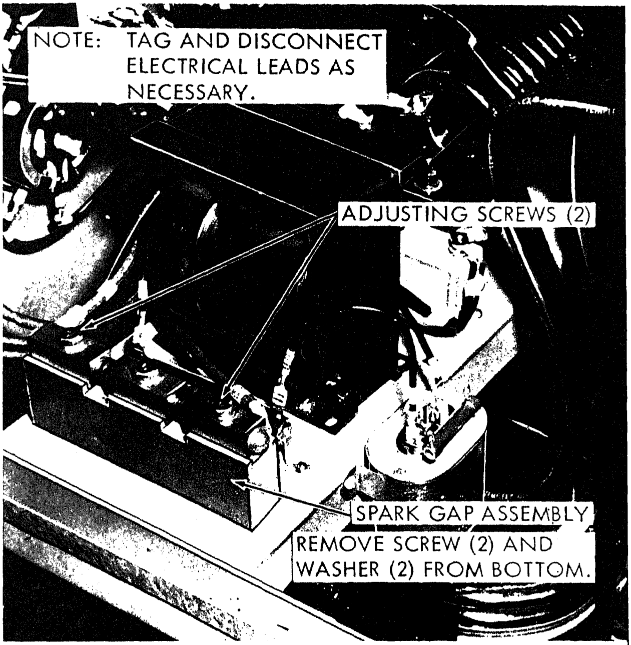
(2) Refer to figure 3–9 and remove the terminal connecting links.

b. Cleaning and Inspection.

(1) Clean the terminal connecting links with an approved cleaning solvent and dry thoroughly.

(2) Inspect for corrosion or other damage.

(3) Replace a defective terminal connecting link as necessary.


NOTE: TAG AND DISCONNECT ELECTRICAL LEADS AS NECESSARY.
ADJUSTING SCREWS (2)
SPARK GAP ASSEMBLY
REMOVE SCREW (2) AND WASHER (2) FROM BOTTOM.

STEP 1. LOOSEN ADJUSTING SCREWS (2).
STEP 2. INSERT 0.006 IN. FEELER GAGE BETWEEN CENTER AND OUTER GAP TERMINALS.
STEP 3. POSITION OUTER GAP TERMINALS UNTIL A SLIGHT DRAG IS FELT AS FEELER GAGE IS REMOVED. TIGHTEN ADJUSTING SCREW.

ME 3431-213-14/3-8

Figure 3–8. Spark gap assembly, removal, installation and adjustment.

c. Installation.

(1) Refer to figure 3–9 and install the terminal connecting links.

(2) Install the bottom rear shroud (para 3–13).

3–25. Ground and Electrode Terminal Board

a. Removal.

(1) Remove the right side shroud (para 3–13).

(2) Refer to figures 3–4 and 3–5 and remove the ground and electrode terminal board.

b. Cleaning and Inspection.

(1) Clean all metal parts with an approved cleaning solvent and dry thoroughly. Clean the fiber board with a clean dry cloth.

(2) Inspect for cracks, breaks, corrosion, or other damage.

(3) Replace a defective part as necessary.

c. Installation.

(1) Refer to figures 3–4 and 3–5 and install the ground and electrode terminal board.

(2) Install the right side shroud (para 3–13).

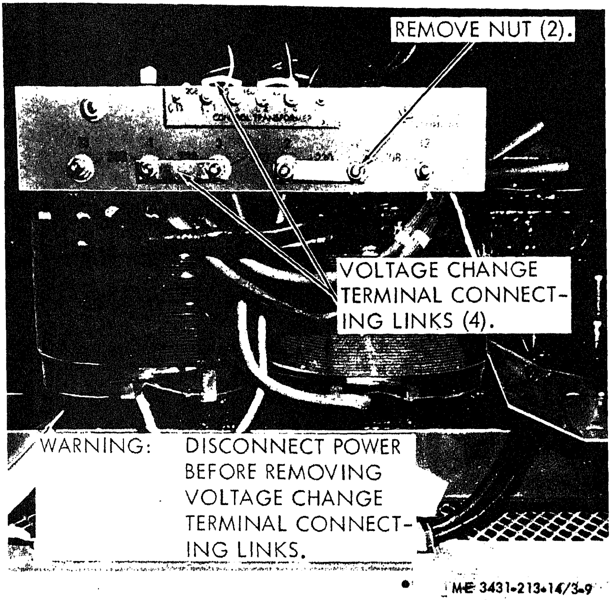

REMOVE NUT (2).
VOLTAGE CHANGE TERMINAL CONNECTING LINKS (4).
WARNING: DISCONNECT POWER BEFORE REMOVING VOLTAGE CHANGE TERMINAL CONNECTING LINKS.
ME 3431-213-14/3-9

Figure 3–9. Voltage change terminal connecting links, removal and installation.

Section IX. GAS AND WATER SOLENOID VALVES

3–26. General

The gas solenoid valve is used when the operator is doing inert gas arc welding. The water solenoid valve is used only when a watercooled torch is used. The solenoid valves are operated automatically through the post-purge timer.

3–27. Gas and Water Solenoid Valves

a. Removal.

(1) Remove the left side shroud (para 3–13).

(2) Refer to figures 3–4 and 3–5 and remove he gas and water solenoid valves.

b. Cleaning and Inspection.

(1) Clean the gas and water solenoid valves with an approved cleaning solvent and dry thoroughly.

(2) Inspect for breaks, cracks, defective or corroded fittings, defective or corroded fittings, defective wire leads, or other damage.

(3) Replace a defective solenoid valve as necessary.

c. Installation.

(1) Refer to figures 3–4 and 3–5 and install the gas and water solenoid valves.

(2) Install the left side shroud (para 3–13).

Section X. VENTILATING-COOLING SYSTEM

3–28. General

The welding machine is cooled by a fan motor assembly which operates from the control transformer. It has three aluminum blades which pull the air through the welder and out the back. The ballast resistor is mounted with the fan guard so it can be cooled by the air flow through the fan. To make any repairs on the motor, fan blade, or guard, the complete assembly must be removed.

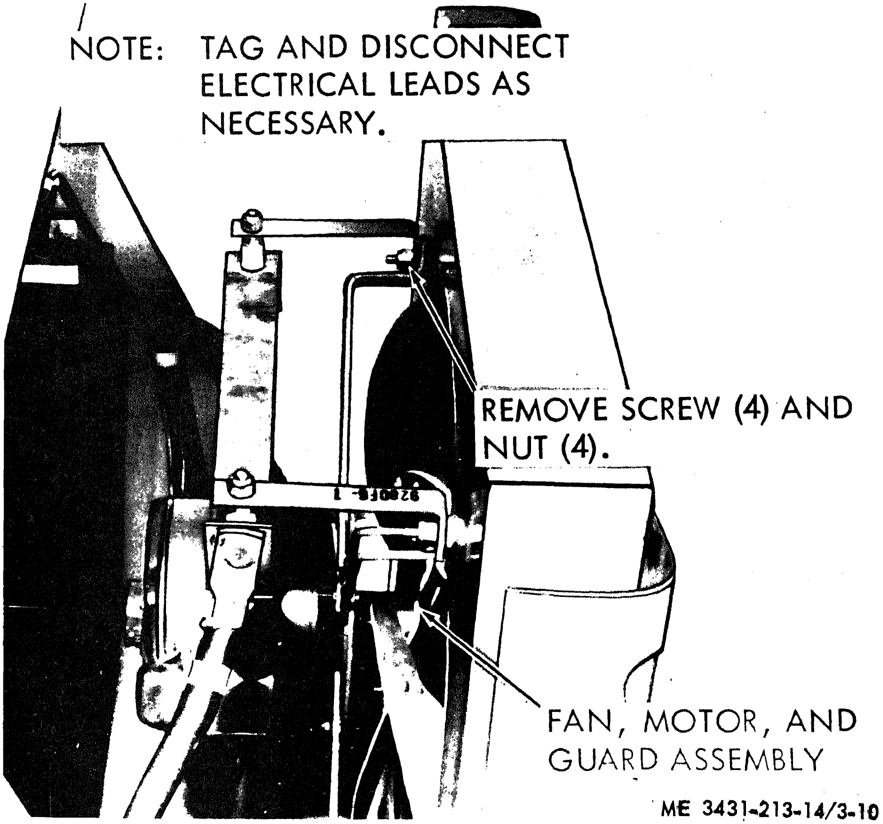

NOTE: TAG AND DISCONNECT ELECTRICAL LEADS AS NECESSARY.
REMOVE SCREW (4) AND NUT (4).
FAN, MOTOR, AND GUARD ASSEMBLY
ME 3431-213-14/3-10

Figure 3–10. Fan, motor, and guard assembly, removal and installation.

3–29. Fan, Motor, and Guard Assembly

a. Removal.

(1) Remove the side shrouds (para 3–13).

(2) Remove the top rear shroud with the fan, motor and guard assembly (para 3–13).

(3) Refer to figure 3–10 and remove the fan, motor and guard from the top rear shroud as a complete unit.

b. Disassembly. Refer to figure 3–11 and disassemble the fan, motor, and guard assembly.

c. Cleaning and Inspection.

(1) Clean all parts with an approved cleaning solvent and dry thoroughly.

(2) Inspect for wear, broken parts, cracks, bent blades, broken or corroded wire leads, damaged insulation, or other damage.

(3) Replace defective parts as necessary.

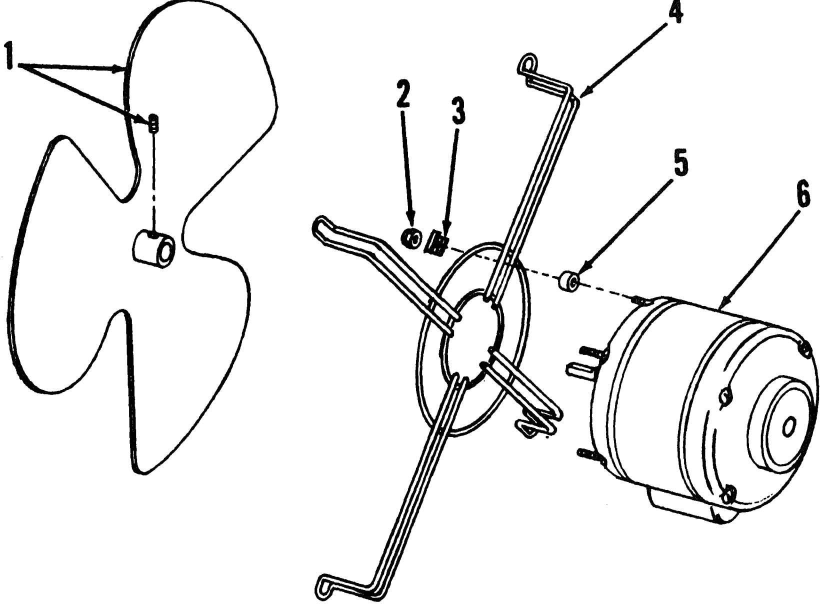
d. Reassembly. Refer to figure 3–11 and reassemble the fan, motor and guard assembly.

e. Installation.

(1) Refer to figure 3–10 and attache the fan, motor and guard to the top rear shroud as a complete unit.

(2) Install the top rear shroud with the fan, motor, and guard assembly (para 3–13).

(3) Install the side shrouds (para 3–13).



1	Impeller with set screw	4	Guard
2	Nut, self-locking, hexagon 8–32 (4 rqr)	5	Spacer (4 rqr)
3	Clip (4 rqr)	6	Motor

Figure 3–11. Fan, motor, and guard assembly, disassembly and reassembly.

CHAPTER 4

SHIPMENT AND LIMITED STORAGE AND DEMOLITION TO PREVENT ENEMY USE

Section I. SHIPMENT AND LIMITED STORAGE

4–1. Preparation of Equipment for Shipment

a. General. Detailed instructions for the preparation of engineer equipment for domestic shipment are outlined below. Preservation will be accomplished in sequence that will not require the operation of previously preserved components.

b. Inspection. The welding machine will be inspected for any unusual conditions such as damage, rusting, accumulation of water and pilferage. Inspection of the individual components and assemblies will be as outlined on the "Preventive Maintenance Checks and Services, Quarterly" in this manual.

c. Cleaning and Drying. Clean all surfaces with an approved cleaning solvent and dry thoroughly. Refer to TM 38–230 for choice and application of cleaning method.

d. Painting. Paint all surfaces on which the paint has been removed or damaged. Refer to TM 9–213 for detailed cleaning and painting instructions.

e. Depreservation Guide. DA Form 2258 (Depreservation Guide of Engineer Equipment).

(1) A properly annotated depreservation guide will be completed concurrently with preservation for each item of mechanical equipment with all peculiar requirements outlined in the remarks column. The completed depreservation guide will be placed with the equipment in a waterproof envelope, marked "Depreservation Guide," and fastened in a conspicuous location on or near the operator's controls.

(2) Prior to placing equipment in operation or to the extent necessary for inspection, depreservation of the item will be performed as outlined on the depreservation guide.

f. Sealing of Openings. The fan guard opening located in the back panel of the welding machine will be covered with waterproof paper and sealed with type III, class I, pressure sensitive tape conforming to Specification PPP–T–60.

g. Marking. Markings will conform to MIL–STD–129.

h. Disassembly, Disassembled Parts, and Basic Issue Items.

(1) Disassembly will be limited to the removal of parts and projecting components that tend to increase the overall profile of the equipment and that which is subject to pilferage.

(2) Disassembled items will be packed with the publications in the toolbox if possible. Otherwise, items will be packed in a suitable container and secured to the equipment to prevent loss or pilferage.

4–2. Loading Equipment for Shipment

a. Loading.

(1) Be sure the packing crate remains right side up when removing the welding machine to the loading site.

(2) The welding machine can be loaded with either a forklift or crane.

***Warning:* When using a lifting device to move the welding machine make sure that it has a safe lifting capacity of at least 1,000 pounds. Do not allow the welding machine to swing freely when being lifted. Failure to observe this warning may cause damage to the equipment or serious injury to personnel.**

b. Shipping. Block or tie welding machine right side up to the bed of the carrier to prevent shifting while being transported.

4–3. Preparation of Equipment for Storage

a. Detailed instructions for preparation of the welding machine for limited storage are provided in paragraph 4–1. Limited storage is defined as storage not to exceed six (6) months.

ered storage for the welding machine. If this is impossible, select a firm, level, well-drained storage location, protected from prevailing winds. Position the welding machine on heavy planking. Cover the welding machine with a tarpaulin or other suitable waterproof covering and secure in a manner that will provide the welding machine maximum protection from the elements.

in Storage

When the welding machine has been placed in storage, all scheduled preventive maintenance services, including inspection, will be suspended and preventive maintenance checks and services, quarterly will be performed every 90 days. All deficiencies will be recorded on DA Form 2404, together with corrective action.

Section II. DEMOLITION OF MATERIAL TO PREVENT ENEMY USE

4–5. General

When capture or abandonment of the welding machine to an enemy is imminent, the responsible unit commander must make the decision either to destroy the equipment or to render it inoperative. Based on this decision, orders are issued which cover the desired extent of destruction. Whatever method of demolition is employed, it is essential to destroy the same vital parts of all welding machines and all corresponding repair parts.

Priorities	*Parts*
1	Controls and instruments
2	Fan motor
3	Electrical wires

4–6. Demolition to Render the Welding Machine Inoperative

Demolition by Mechanical Means. Use sledge hammers, crowbars, picks, axes, or any other heavy tools which may be available to destroy the following:

a. All controls and instruments.

b. Ground and electrode terminals.

c. Gas and water inlet and outlet fittings.

d. Contactor.

Note. The above procedures are minimum requirements for this method.

e. Fan motor.

f. Reactors, rectifiers, and transformers.

g. Cut all electrical wires and leads.

4–7. Demolition by Explosives or Weapons Fire

a. *Explosives*. Place as many of the following charges as the situation permits and detonate them simultaneously with detonating cord or a suitable detonator. Place one ½ pound charge on control panel and place one ½ pound charge on voltage changeover board.

b. *Weapons Fire*. Fire on the welding machine with the heaviest practical weapons available.

4–8. Other Demolition Methods

a. *Scattering and Concealment*. Remove all easily accessible parts such as the rectifiers, reactors, and transformers. Scatter them through dense foliage, bury them in dirt or sand, or throw them in a lake, stream, or other body of water.

b. *Burning*. Pack rags, paper, or other combustible material around and in the main transformer. Saturate this packing with gasoline, oil, or diesel fuel and ignite.

c. *Submersion*. Totally submerge the welding machine in a body of water to provide water damage and concealment. Salt water will damage metal parts more than fresh water.

4–9. Training

All operators should receive thorough training in the destruction of the welding machine. Refer to FM 5–25. Simulated destruction, using all of the methods listed above, should be included in the operator training program. It must be emphasized in training that demolition operations are usually necessitated by critical situations when time available for carrying out destruction is limited. For this reason, it is necessary that operators be thoroughly familiar with all methods of destruction of equipment and be able to carry out demolition instructions without reference to this or any other manual.

CHAPTER 5

DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE INSTRUCTIONS

Section I. GENERAL

5–1. Scope

a. These instructions are published for the use of direct and general support maintenance personnel maintaining the Harnischfeger Model DAR–300HFSG and Model 2100H2007 Welding Machine. They provide information on the maintenance of the equipment, which is beyond the scope of the tools, equipment, personnel, or supplies normally available to using organizations.

b. Report all equipment improvements recommendations as prescribed by TM 38–750.

5–2. Forms and Records

a. DA Form and records used for equipment maintenance will be only those prescribed in TM 38–750.

b. The direct reporting of errors, omissions, and recommendations for improving this equipment publication by the individual user is authorized and encouraged. DA Form 2028 (Recommended Changes to Publications) will be used for reporting these improvements. This form may be completed using pencil, pen, or typewriter. DA Form 2028 will be completed by the individual using the manual and forwarded direct to Commanding General, U. S. Army Mobility Equipment Command, ATTN: AMSME-MPP, 4300 Goodfellow Boulevard, St. Louis, Mo. 63120.

Section II. DESCRIPTION AND DATA

5–3. Description

For a complete description of the welding machine, refer to paragraph 1–3.

5–4. Tabulated Data

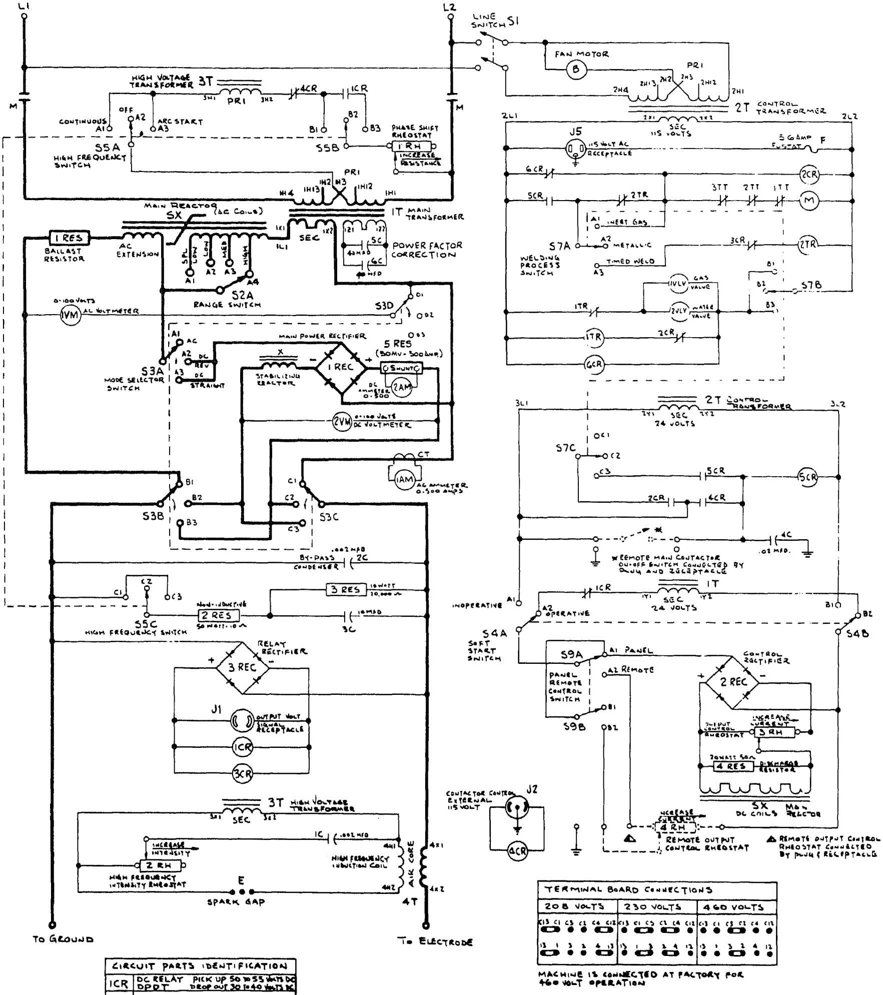
a. General. This paragraph contains all the overhaul data pertinent to direct and general support maintenance personnel. A wiring diagram (fig. 5–1 and 5–2) is also included.

b. Control Transformer.

Primary	208/230/460 v
Cycles	50/60
Secondary	115 and 25 v

c. High Frequency Transformer.

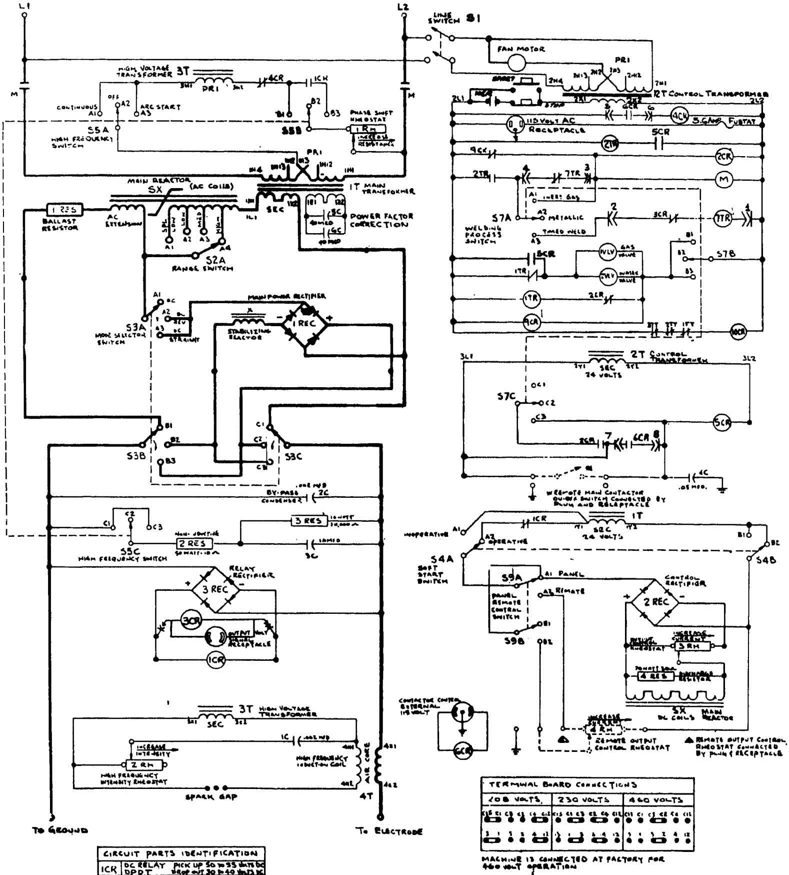
Primary	230 v
Cycles	60
Secondary	3000 v



CIRCUIT PARTS IDENTIFICATION	
1CR	DC RELAY PICK UP 50 TO 55 VOLTS DC DPDT DROP OUT 30 TO 40 VOLTS DC
2CR	AC RELAY DPDT 115 VOLTS
3CR	DC RELAY PICK UP 50 TO 55 VOLTS DC SPDT DROP OUT 30 TO 40 VOLTS DC
4CR	AC RELAY DPDT 115 VOLTS
5CR	AC RELAY DPDT 24 VOLTS
6CR	AC RELAY SPDT 115 VOLTS
1TR	SYNCHRONOUS TIMER - POST PURGE 115 VOLTS AC
2TR	SYNCHRONOUS TIMER - TIMED WELD 115 VOLTS AC
1TT	POWER RECTIFIER THERMOSTAT 60°C ± 5°
2TT	REACTOR COIL THERMOSTAT 110°C ± 5°
3TT	STABILIZING REACTOR THERMOSTAT 135°C ± 5°

ME 3431-213-14/5-1

Figure 5–1. Schematic wiring diagram, Model DAR–300HFSG.



CIRCUIT PARTS IDENTIFICATION	
1CR	DC RELAY PICK UP 50 TO 55 VOLTS DC DPDT DROP OUT 30 TO 40 VOLTS DC
2CR	AC RELAY DPDT 115 VOLTS
3CR	DC RELAY PICK UP 50 TO 55 VOLTS DC SPDT DROP OUT 30 TO 40 VOLTS DC
4CR	AC RELAY SPDT 115 VOLTS
5CR	AC RELAY DPDT 24 VOLTS
6CR	AC RELAY DPDT 115 VOLTS
9CR	AC RELAY SPDT 115 VOLTS
10CR	AC RELAY SPDT 115 VOLTS
1TR	SYNCHRONOUS TIMER-POST PURGE 115 VOLTS AC
2TR	SYNCHRONOUS PRE-PURGE 115 VOLTS AC
7TR	SYNCHRONOUS TIMER TIMED WELD 115 VOLTS AC
1TT	POWER RECTIFIER THERMOSTAT 60°C. 2.5°
2TT	REACTOR COIL THERMOSTAT 110°C. 2.5°
3TT	STABILIZING REACTOR THERMOSTAT 135°C. 15°
KF	TIMED WELD PLUG

ME 3431-213-14/5-2

Figure 5–2. Schematic wiring diagram, Model 2100H2037.

Section III. REPAIR PARTS, SPECIAL TOOLS, AND EQUIPMENT

5–5. Special Tools and Equipment

No special tools or equipment are required by direct and general support maintenance for the maintenance of this welding machine.

5–6. Direct Support and General Support Maintenance Repair Parts

Direct and General support maintenance repair parts are listed and illustrated in Appendix D of this manual.

5–7. Specially Designed Tools and Equipment

No specially designed tools and equipment are required for direct and general support maintenance of this welding machine.

Section IV. TROUBLESHOOTING

5–8. General

This section provides information useful in diagnosing and correcting unsatisfactory operation or failure of the welding machine or any of its components. Each malfunction stated is followed by a list of probable causes of trouble. The corrective action recommended is described opposite the probable cause.

Table 5–1. Troubleshooting

Malfunction	Probable cause	Corrective action
1. Welding Machine Smokes Excessively.	*a.* Main transformer defective	*a.* Repair or replace transformer (para 6–28).
	b. Control transformer defective	*b.* Replace transformer (para 6–27).
2. Polarity Cannot be Selected	Polarity selector switch defective	Replace switch (para 6–3).
3. Range Cannot be Selected	Range selector switch defective	Replace switch (para 6–3).
4. Welding Maching Fails to Start	*a.* Main transformer defective	*a.* Repair or replace transformer (para 6–28).
	b. Wiring defective	*b.* Repair or replace wiring (para 6–30).
5. Welding Machine Operates Erratically.	*a.* Power rectifier defective	*a.* Replace rectifier (para 6–9).
	b. Output control rheostat defective	*b.* Replace output control rheostat (para 6–4).
	c. Range switch contacts dirty, greasy or bent.	*c.* Clean or straighten contacts, or replace range switch (para 6–3).
6. Contactor Breaks Circuit	*a.* Wiring shorted	*a.* Repair or replace wiring (para 6–30).
	b. Main transformer shorted	*b.* Repair or replace transformer (para 6–28).
7. No Current Control	*a.* Output control rheostat defective	*a.* Replace output control rheostat (para 6–4).
	b. Control rectifier defective	*b.* Replace control rectifier (para 6–9).
	c. Saturable reactor dc coil shorted, grounded or open.	*c.* Replace dc coil (para 6–14).

CHAPTER 6

REPAIR INSTRUCTIONS

Section I. CONTROL PANEL, RANGE AND POLARITY SELECTOR SWITCHES, RHEOSTATS, AND RELAY PANEL ASSEMBLY

6–1. General

All of the welding machine controls, instruments, receptacles, and connection devices except for the power and ground connections are mounted to the control panel. The range selector switch is used to select desired welding current range and the polarity selector switch is used to select ac, dc, or dc reverse polarity. The output control rheostat controls welding current within the selected range. The phase shift and intensity rheostats are adjusted for best high frequency operating conditions. The relay panel mounts the control relays, control and relay rectifiers, and a terminal board.

6–2. Control Panel

a. Model DAR–300HFSG.

(1) *Removal.*

(*a*) Remove the side shrouds (para 3–13).

(*b*) Remove the output control rheostat (para 6–4).

(*c*) Remove the post-purge and timed weld timers (para 3–16).

(*d*) Remove the electrical receptacles voltmeters (para 3–17).

(*e*) Remove the electrical receptacles (para 3–18).

(*f*) Remove the toggle switches (para 3–15).

(*g*) Remove the phase shift and intensity rheostats (paras 6–5 and 6–6).

(*h*) Remove the range selector switch and polarity selector switch (para 6–3).

(*i*) Remove the gas and water solenoid valves (para 3–27).

(*j*) Remove the terminal board door by straightening hinge tabs and removing from panel.

(*k*) Remove the ground and electrode terminal board (para 3–25).

(*l*) Remove the fuse and fuseholder (para 3–18).

(*m*) Remove the relay panel assembly (para 6–7).

(*n*) Refer to figure 6–1 and remove the control panel.

(2) *Cleaning and Inspection.*

(*a*) Clean the control panel with an approved cleaning solvent and dry thoroughly.

(*b*) Inspect the control panel for dents, breaks, cracks, scratches, or other damage. Inspect identification and instruction plates for obliteration of data.

(*c*) Replace a defective identification or instruction plate or the control panel as necessary.

(3) *Installation.*

(*a*) Refer to figure 6–1 and install the control panel.

(*b*) Install the relay panel assembly (para 6–7).

(*c*) Install the fuse and fuseholder (para 3–18).

(*d*) Install the ground and electrode terminal board (para 3–25).

(*e*) Install the terminal board door by inserting it in the control panel and bending the hinge tabs outwards 30 degrees.

(*f*) Install the gas and water solenoid valves (para 3–27).

(*g*) Install the range selector switch and polarity selector switch (para 6–3).

(*h*) Install the phase shift and intensity rheostats (paras 6–5 and 6–6).

(*i*) Install the toggle switches (para 3–15).

(*j*) Install the electrical receptacles (para 3–18).

(*k*) Install the ac and dc ammeters and voltmeters (para 3–17).

(*l*) Install the post-purge and timed weld timers (para 3–16).

(*m*) Install the output control rheostat (para 6–4).

(*n*) Install the side shrouds (para 3–13).

b. Model 2100H2007.

(1) *Removal.*

(*a*) Remove the side shrouds (para 3–13).

(*b*) Remove the output control rheostat (para 6–4).

(*c*) Remove the post-purge and pre-purge timers, and the timed weld kit (para 3–16).

(*d*) Remove the electrical receptacles (para 3–18).

(*e*) Remove the pushbutton switch (para 3–21).

(*f*) Remove the toggle switches (para 3–15).

(*g*) Remove the phase shift and intensity rheostats (paras 6–5 and 6–6).

(*h*) Remove the range selector switch and polarity selector switch (para 6–3).

(*i*) Remove the gas and water solenoid valves (para 3–27).

(*j*) Remove the terminal board door by straightening hinge tabs and removing from panel.

(*k*) Remove the ground and electrode terminal board (para 3–25).

(*l*) Remove the fuse and fuseholder (para 3–18).

(*m*) Remove the relay panel assembly (para 6–7).

(*n*) Refer to figure 6–2 and remove the control panel.

(2) *Cleaning and Inspection.*

(*a*) Clean the control panel with an approved cleaning solvent and dry thoroughly.

(*b*) Inspect the control panel for dents, breaks, cracks, scratches, or other damage. Inspect identification and instruction plates for obliteration of data.

(*c*) Replace a defective identification or instruction plate or the control panel as necessary.

(3) *Installation.*

(*a*) Refer to figure 6–2 and install the control panel.

(*b*) Install the relay panel assembly (para 6–7).

(*c*) Install the fuse and fuseholder (para 3–18).

(*d*) Install the ground and electrode terminal board (para 3–25).

(*e*) Install the terminal board door by inserting it in the control panel and bending the hinge tabs outward 30 degrees.

(*f*) Install the gas and water solenoid valves (para 3–27).

(*g*) Install the range selector switch and polarity selector switch (para 6–3).

(*h*) Install the phase shift and intensity rheostats (paras 6–5 and 6–6).

(*i*) Install the toggle switches (para 3–15).

(*j*) Install the electrical receptacles (para 3–18).

(*k*) Install the pushbutton switch (para 3–19).

(*l*) Install the post-purge and pre-purge timers, and the timed weld kit (para 3–16).

(*m*) Install the output control rheostat (para 6–4).

(*n*) Install the side shrouds (para 3–13).

6–3. Range and Polarity Selector Switches

a. Removal.

(1) Remove the side shrouds (para 3–13).

(2) Refer to figures 6–3 and 6–4 and remove the range and polarity selector switches.

b. Cleaning and Inspection.

(1) Clean all parts with an approved cleaning solvent and dry thoroughly.

(2) Inspect all parts for corrosion, wear, cracks, and other damage.

(3) Replace a defective switch as necessary.

c. Installation.

(1) Refer to figures 6–3 and 6–4 and install the range and polarity selector switches.

(2) Install the side shrouds (para 3–13).

6–4. Output Control Rheostat

a. Removal.

(1) Remove the left side shroud (para 3–13).

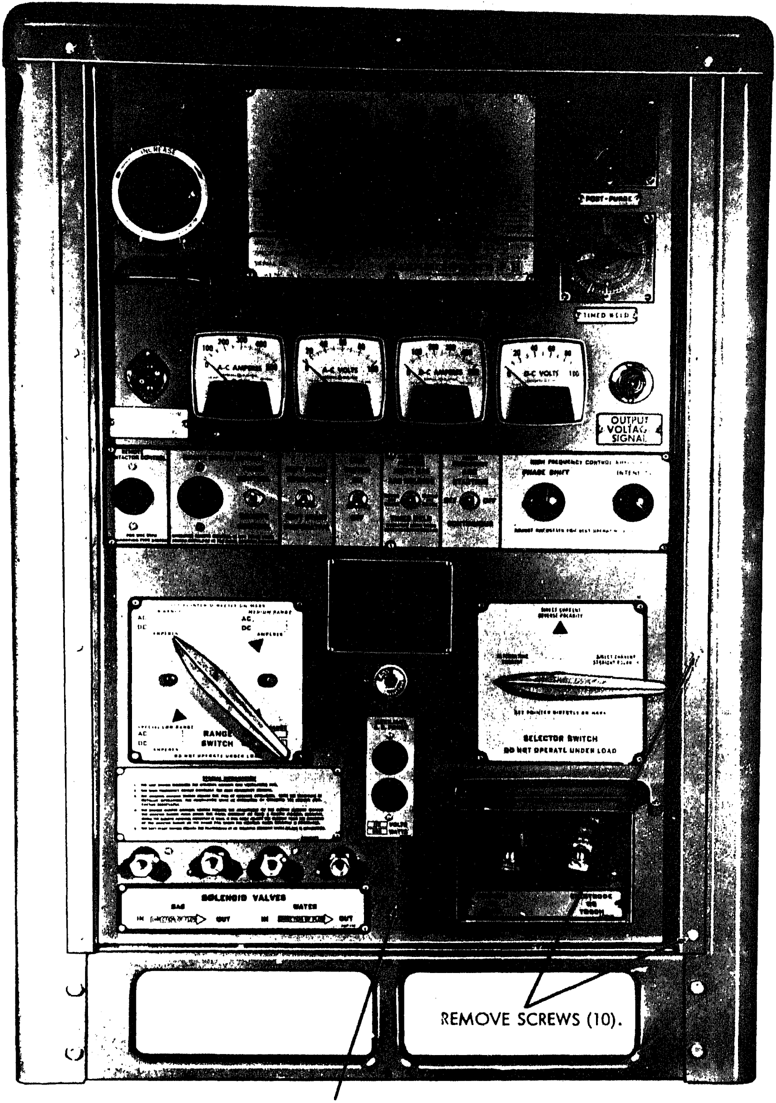
(2) Refer to figures 6–3 and 6–4 and remove the output control rheostat.

b. Cleaning and Inspection.

(1) Clean the rheostat with a clean, dry cloth.

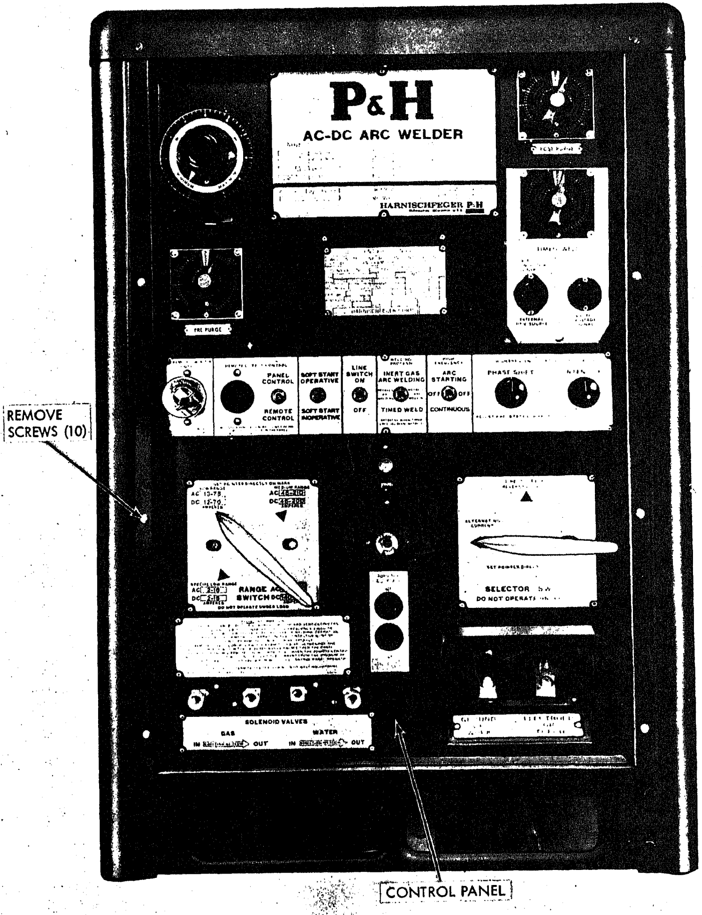
(2) Inspect for wear, corrosion, breaks, cracks, or other damage.

(3) Replace a defective output control rheostat as necessary.



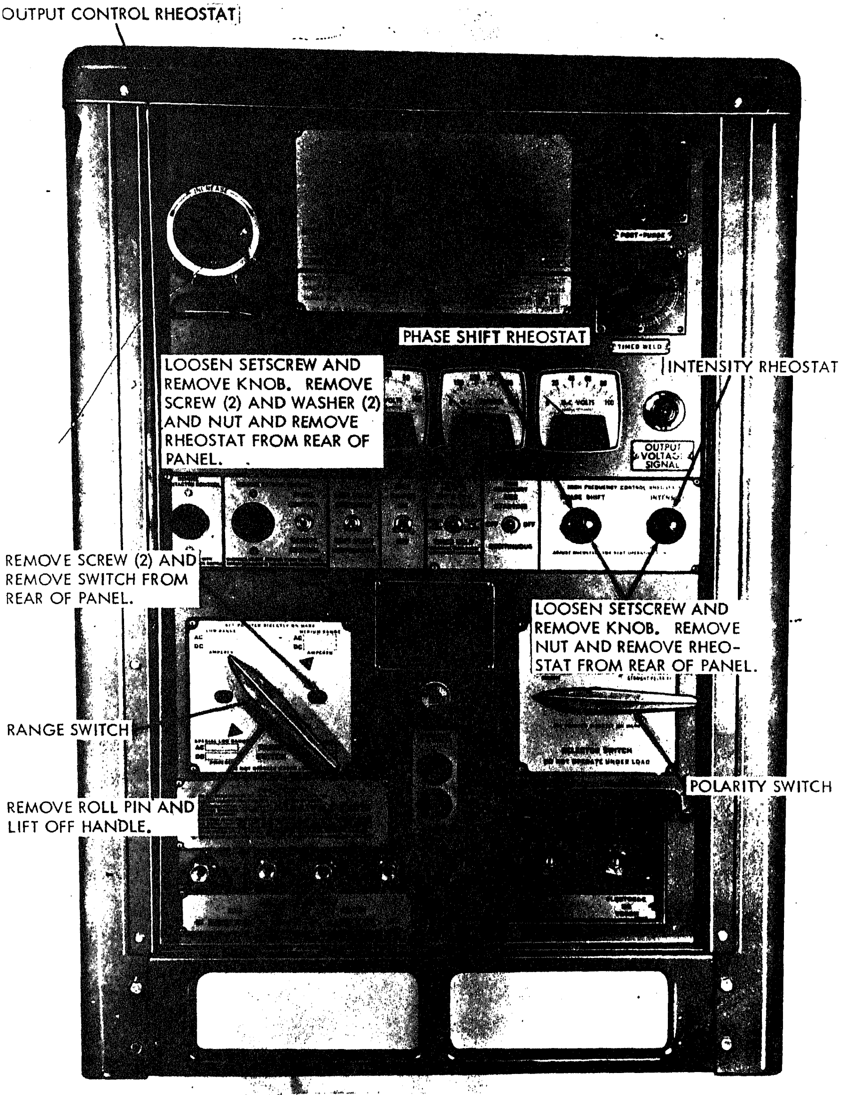
CONTROL PANEL

ME 3431-213-14/6



ME 3431-213-14/6-2

Figure 6–2. Control panel, removal and installation, Model 2100H2007.



LOOSEN SETSCREW AND REMOVE KNOB. REMOVE SCREW (2) AND WASHER (2) AND NUT AND REMOVE RHEOSTAT FROM REAR OF PANEL.

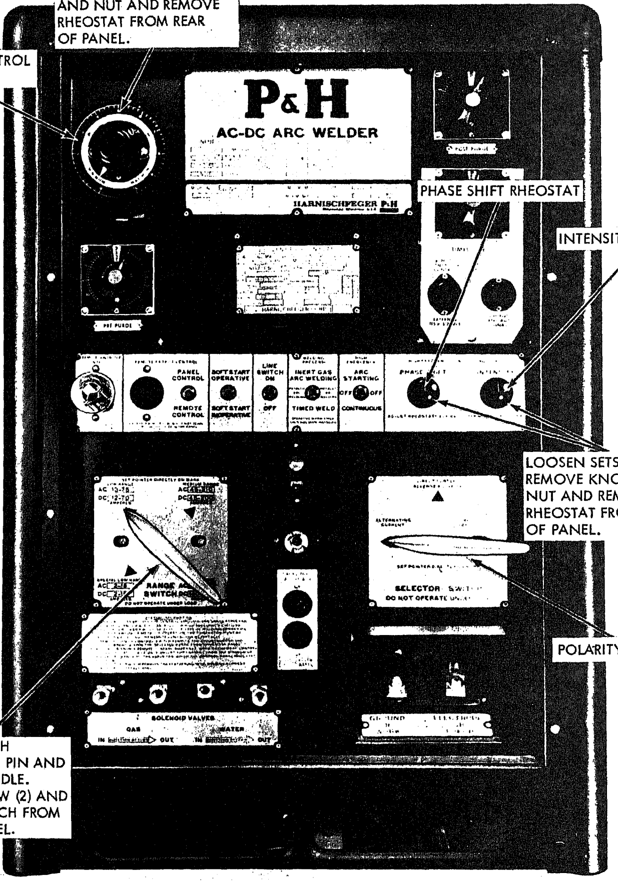
REMOVE SCREW (2) AND REMOVE SWITCH FROM REAR OF PANEL.

LOOSEN SETSCREW AND REMOVE KNOB. REMOVE NUT AND REMOVE RHEOSTAT FROM REAR OF PANEL.

REMOVE ROLL PIN AND LIFT OFF HANDLE.

NOTE: TAG AND DISCONNECT ELECTRICAL LEADS AS NECESSARY

ME 3431-213-14/6-3



LOOSEN SETSCREW AND REMOVE KNOB. REMOVE SCREW (2), WASHER (2), AND NUT AND REMOVE RHEOSTAT FROM REAR OF PANEL.

OUTPUT CONTROL RHEOSTAT

PHASE SHIFT RHEOSTAT

INTENSITY RHEOSTAT

LOOSEN SETSCREW AND REMOVE KNOB. REMOVE NUT AND REMOVE RHEOSTAT FROM REAR OF PANEL.

POLARITY SWITCH

RANGE SWITCH
REMOVE ROLL PIN AND LIFT OFF HANDLE.
REMOVE SCREW (2) AND REMOVE SWITCH FROM REAR OF PANEL.

NOTE: TAG AND DISCONNECT ELECTRICAL LEADS AS NECESSARY.

ME 3431-213-14/6-4

Figure 6–4. Range and polarity selector switches, output control, phase shift, and intensity rheostat, removal and installation, Model 2100H2007.

c. Test.

(1) Connect an ohmmeter to the two outer terminals of the rheostat and set the meter on RX1 scale. The reading should be 6.2 ohms. If reading is more or less than 6.2 ohms, replace the rheostat.

(2) Connect an ohmmeter to the center terminal and either outside terminal of the rheostat. Set the meter on RX1 scale. Turn the rheostat in either direction until it stops, then turn it in the opposite direction slowly and evenly until it stops again. The indicator on the meter should increase or decrease evenly according to the speed at which the rheostat is turned. If meter indicator does not function as described, replace the rheostat.

Note. Make sure that the ohmmeter used for the above tests is in proper working condition.

d. Installation.

(1) Refer to figures 6–3 and 6–4 and install the output control rheostat.

(2) Install the left side shroud (para 3–13).

6–5. Phase Shift Rheostat

a. Removal.

(1) Remove the right side shroud (para 3–13).

(2) Refer to figures 6–3 and 6–4 and remove the phase shift rheostat.

b. Cleaning and Inspection.

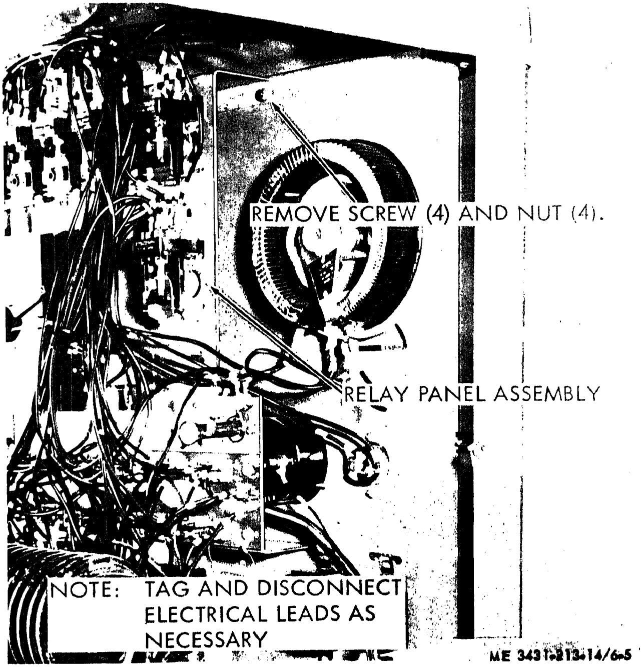
(1) Clean the phase shift rheostat with a clean, dry cloth.

(2) Inspect for breaks, cracks, corrosion, or other damage.

(3) Replace a defective phase shift rheostat as necessary.

c. Test.

(1) Connect an ohmmeter to the two outer terminals of the rheostat and set the meter on RX10 scale. The reading should be 400 ohms. If reading is more or less than 400 ohms, replace rheostat.



NOTE: TAG AND DISCONNECT ELECTRICAL LEADS AS NECESSARY

Figure 6–5. Relay panel assembly, removal and installation, Model DAR-100HESG

(2) Connect an ohmmeter to the center terminal and either outside terminal of the rheostat. Set the meter on RX10 scale. Turn the rheostat in either direction until it stops, then turn it in the opposite direction slowly and evenly until it stops again. The indicator on the meter should increase or decrease evenly according to the speed at which the rheostat is turned. If meter indicator does not function as described, replace the rheostat.

Note. Make sure that the ohmmeter used for the above tests is in proper working condition.

d. Installation.

(1) Refer to figures 6–3 and 6–4 and install the phase shift rheostat.

(2) Install the right side shroud (para 3–13).

6–6. Intensity Rheostat

a. Removal.

(1) Remove the right side shroud (para 3–13).

(2) Refer to figures 6–3 and 6–4 and remove the intensity rheostat.

b. Cleaning and Inspection.

(1) Clean the intensity rheostat with a clean, dry cloth.

(2) Inspect for breaks, cracks, corrosion, or other damage.

(3) Replace a defective intensity rheostat as necessary.

c. Test.

(1) Connect an ohmmeter to the two outer terminals of the rheostat and set the meter on RX1 scale. The reading should be 5 ohms. If reading is more or less than 5 ohms, replace the rheostat.

(2) Connect an ohmmeter to the center terminal and either outside terminal of the rheostat. Set the meter on RX1 scale. Turn the rheostat in either direction until it stops, then turn it in the opposite direction slowly and evenly until it stops again. The indicator on the meter should increase or decrease evenly according to the speed at which the rheostat is turned. If meter indicator does not function as described, replace the rheostat.

Note. Make sure that the ohmmeter used for the above tests is in proper working condition.

d. Installation.

(1) Refer to figures 6–3 and 6–4 and install the intensity rheostat.

(2) Install the right side shroud (para 3–13).

6–7. Relay Panel Assembly

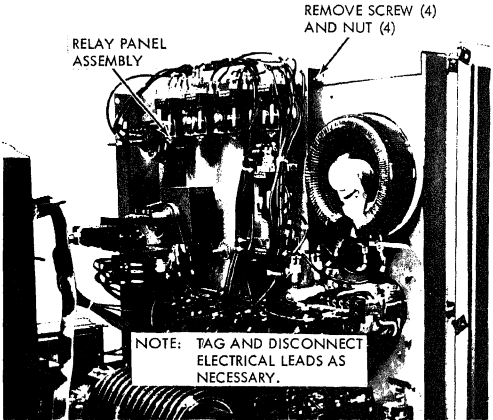
a. Removal.

(1) Remove the side shrouds (para 3–13).

(2) Refer to figures 6–5 and 6–6 and remove the relay panel assembly.

b. Disassembly.

(1) Remove the control relays (para 6–15).



NOTE: TAG AND DISCONNECT ELECTRICAL LEADS AS NECESSARY.

ME 3431-213-14/6-6

(2) Remove the control rectifier and relay rectifier (para 6–9).

(3) Remove the capacitor (para 6–10).

(4) Remove the discharge resistor (para 6–11).

(5) Remove the terminal board (para 6–16).

c. Cleaning and Inspection.

(1) Clean the relay panel with an approved cleaning solvent and dry thoroughly.

(2) Inspect the relay panel for dents, breaks, cracks, or other damage.

(3) Replace a defective relay panel as necessary.

d. Reassembly.

(1) Install the terminal board (para 6–16).

(2) Install the discharge resistor (para 6–11).

(3) Install the capacitor (para 6–10).

(4) Install the control rectifier and relay rectifier (para 6–9).

(5) Install the control relays (para 6–15).

e. Installation.

(1) Refer to figures 6–5 and 6–6 and install the relay panel assembly.

(2) Install the side shrouds (para 3–13).

Section II. RECTIFIERS, CAPACITORS, AND RESISTORS

6–8. General

The control rectifier provides dc voltage for the welding current control circuit. The relay rectifier provides dc voltage for the dc control relays. The main power rectifier provides dc voltage for dc straight or reverse polarity welding.

6–9. Rectifiers

a. Removal.

(1) Remove the side shrouds (para 3–13).

(2) Refer to figures 6–7 and 6–9 and remove the control rectifier, the relay rectifier, and the main power rectifier.

***Warning:* When malfunction of the selenium rectifier occurs, thoroughly ventilate the area to prevent inhalation of poisonous fumes. Do not handle the damaged rectifier while it is warm, to avoid absorption of the poisonous selenium oxide compound through the skin. Failure to observe this warning can result in severe injury or death.**

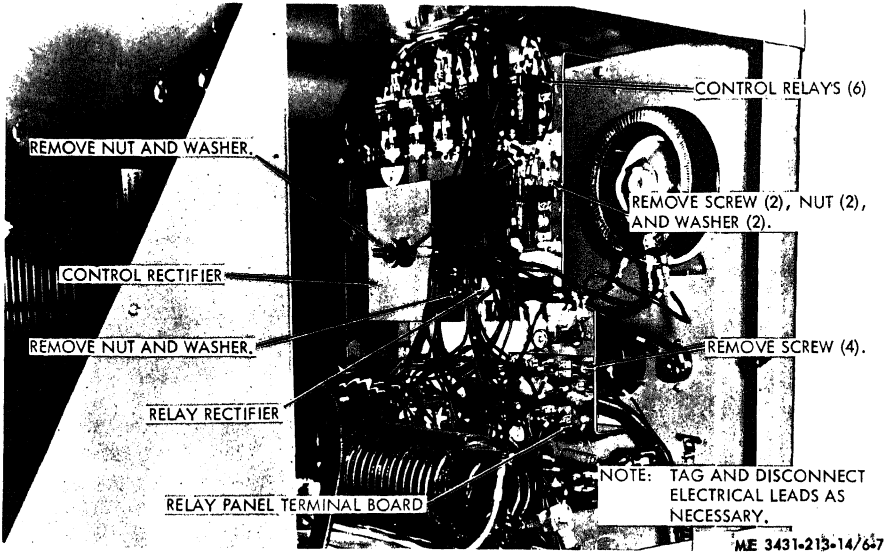


Figure 6–7. Control rectifier, relay rectifier, control relays, and relay panel terminal board, removal and installation, Model DAR–300HFSG.

b. Cleaning and Inspection.

(1) Clean the rectifiers with a clean, dry cloth.

(2) Inspect for bent plates, bent or corroded terminals, or other damage.

(3) Replace a defective or damaged rectifier as necessary.

c. Installation.

(1) Refer to figures 6–7 and 6–9 and install the control rectifier, the relay rectifier, and the main power rectifier.

(2) Install the side shrouds (para 3–13).

6–10. Capacitors

a. Removal.

(1) Remove the side shrouds (para 3–13).

(2) Refer to figures 6–10 and 6–11 and remove the capacitors.

b. Cleaning and Inspection.

(1) Clean the capacitors with a clean, dry cloth.

(2) Inspect for broken, corroded, or damaged leads. Check for signs of overheating or leakage in electrolytic capacitors.

(3) Replace a defective capacitor as necessary.

c. Test. Connect a suitable capacitor tester to the wire leads and check the capacitors for open or shorted circuit.

d. Installation.

(1) Refer to figures 6–10 and 6–11 and install the capacitors.

(2) Install the side shrouds (para 3–13).

6–11. Resistors

a. Removal.

(1) Remove the side shrouds (para 3–13).

(2) Refer to figures 6–12 and 6–13 and remove the resistors.

b. Cleaning and Inspection.

(1) Clean the resistors with a clean, dry cloth.

(2) Inspect for cracks, breaks, corrosion, evidence of heat, or other damage.

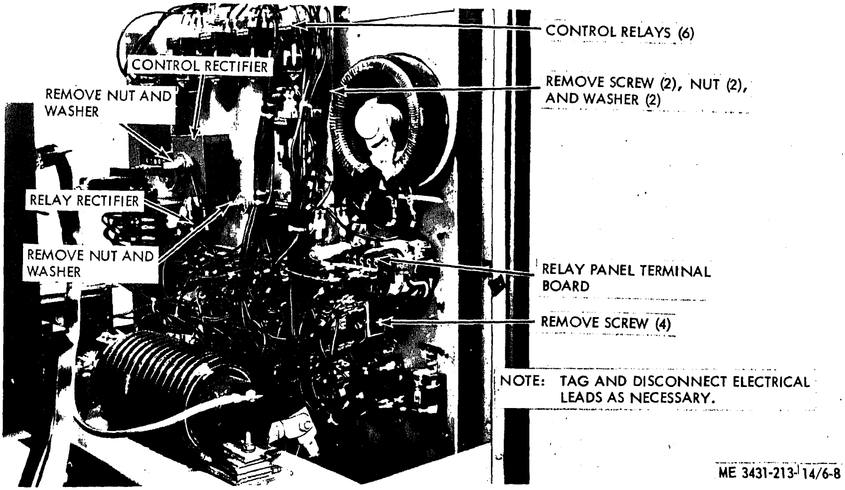
(3) Replace defective resistors as necessary.

c. Test. Connect an ohmmeter to the resistor leads and check the resistance. The meter reading must conform with the resistor values listed on the schematic wiring diagram, figures 5–1 and 5–2.

d. Installation.

(1) Refer to figures 6–12 and 6–13 and install the resistors.

(2) Install the side shrouds (para 3–13).



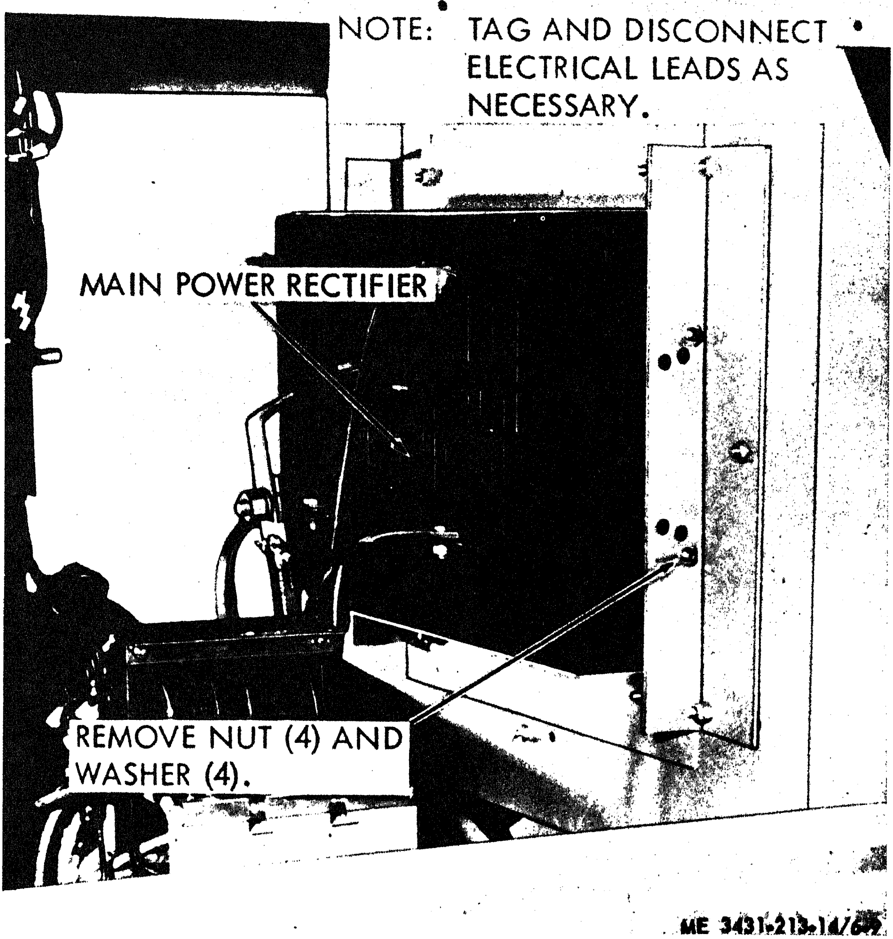
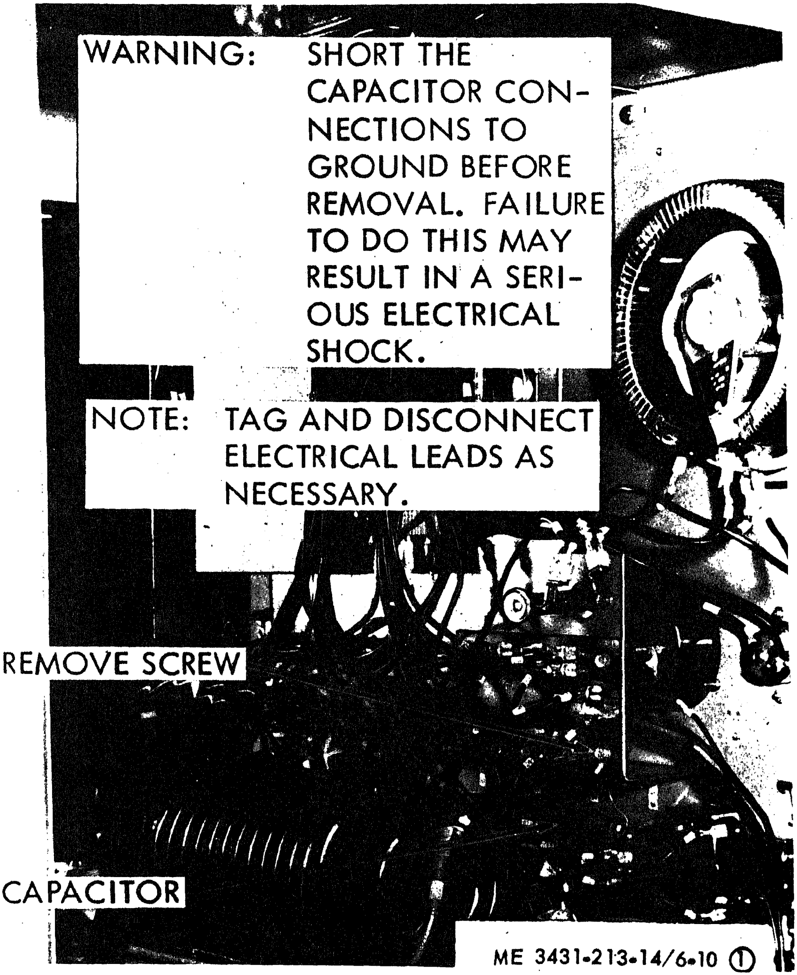

NOTE: TAG AND DISCONNECT ELECTRICAL LEADS AS NECESSARY.
MAIN POWER RECTIFIER
REMOVE NUT (4) AND WASHER (4).
ME 3431-213-14/6-9

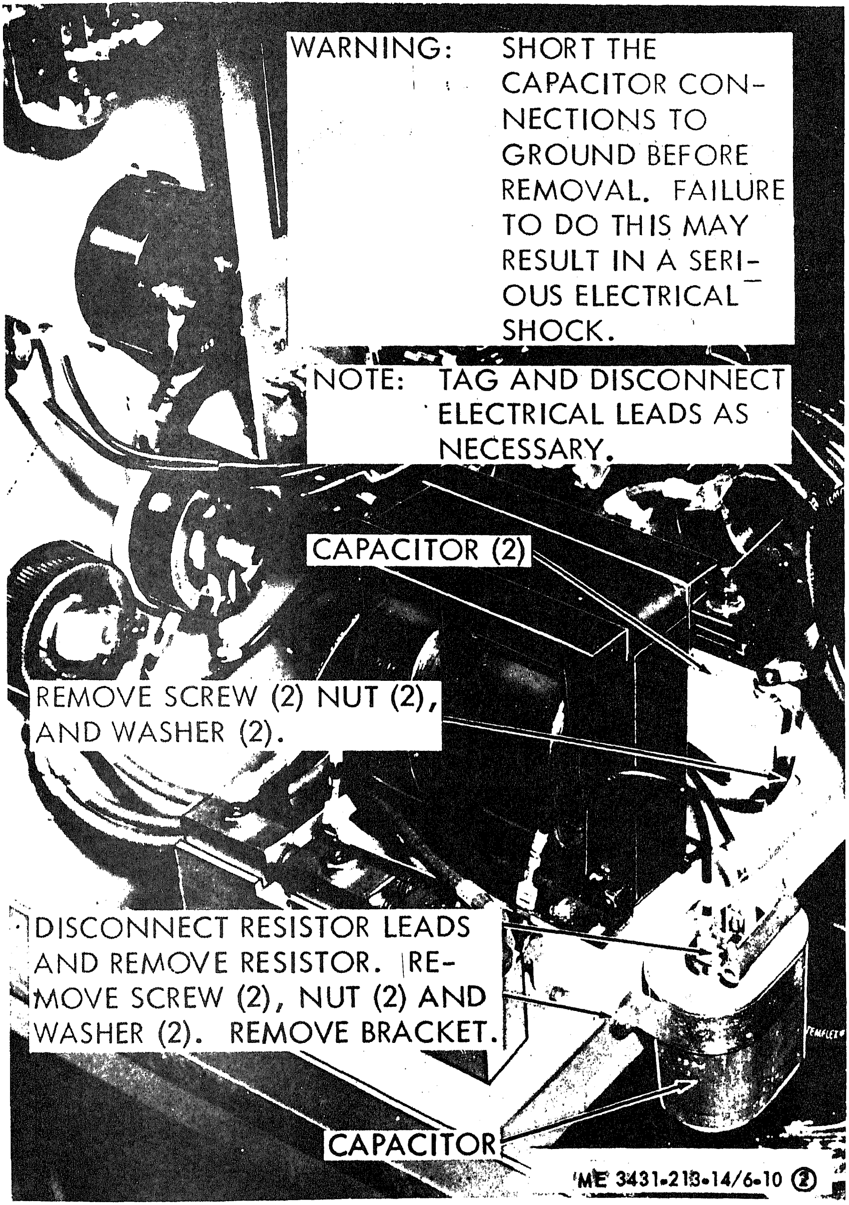
Figure 6–9. Main power rectifier, removal and installation.



WARNING: SHORT THE CAPACITOR CONNECTIONS TO GROUND BEFORE REMOVAL. FAILURE TO DO THIS MAY RESULT IN A SERIOUS ELECTRICAL SHOCK.

NOTE: TAG AND DISCONNECT ELECTRICAL LEADS AS NECESSARY.

Figure 6–10①. Capacitors, removal and installation, Model DAR–300HFSG.



WARNING: SHORT THE CAPACITOR CONNECTIONS TO GROUND BEFORE REMOVAL. FAILURE TO DO THIS MAY RESULT IN A SERIOUS ELECTRICAL SHOCK.

NOTE: TAG AND DISCONNECT ELECTRICAL LEADS AS NECESSARY.

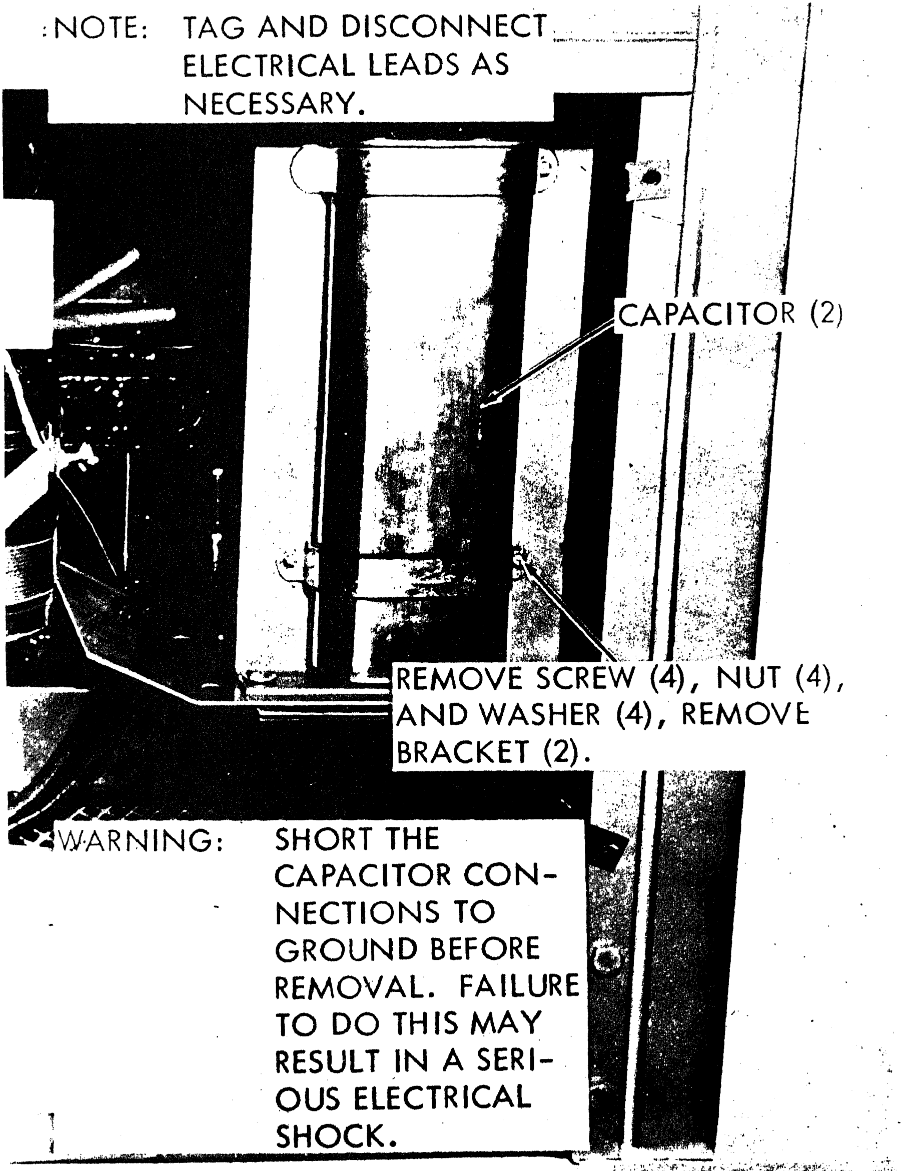
CAPACITOR (2)

REMOVE SCREW (2) NUT (2), AND WASHER (2).

DISCONNECT RESISTOR LEADS AND REMOVE RESISTOR. REMOVE SCREW (2), NUT (2) AND WASHER (2). REMOVE BRACKET.

CAPACITOR

ME 3431-213-14/6-10 ②



NOTE: TAG AND DISCONNECT ELECTRICAL LEADS AS NECESSARY.

REMOVE SCREW (4), NUT (4), AND WASHER (4), REMOVE BRACKET (2).

WARNING: SHORT THE CAPACITOR CONNECTIONS TO GROUND BEFORE REMOVAL. FAILURE TO DO THIS MAY RESULT IN A SERIOUS ELECTRICAL SHOCK.

ME 3431-213-14/6-10 ③

Figure 4-16③. Continued

WARNING: SHORT THE CAPACITOR CONNECTIONS TO GROUND BEFORE REMOVAL. FAILURE TO DO THIS MAY RESULT IN A SERIOUS ELECTRICAL SHOCK.

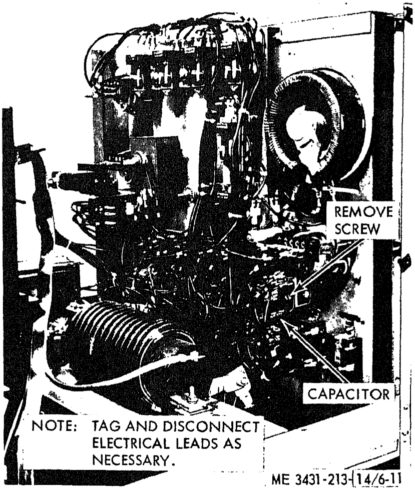


Figure 6–11. Capacitors, removal and installation, Model 2100H2007.

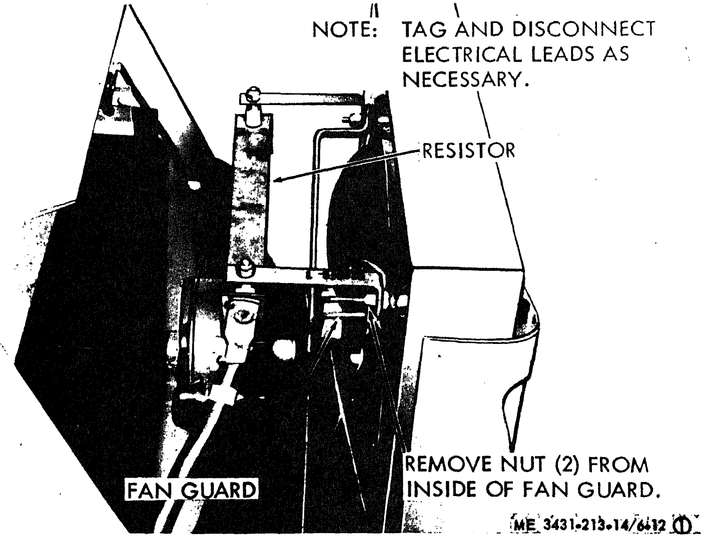
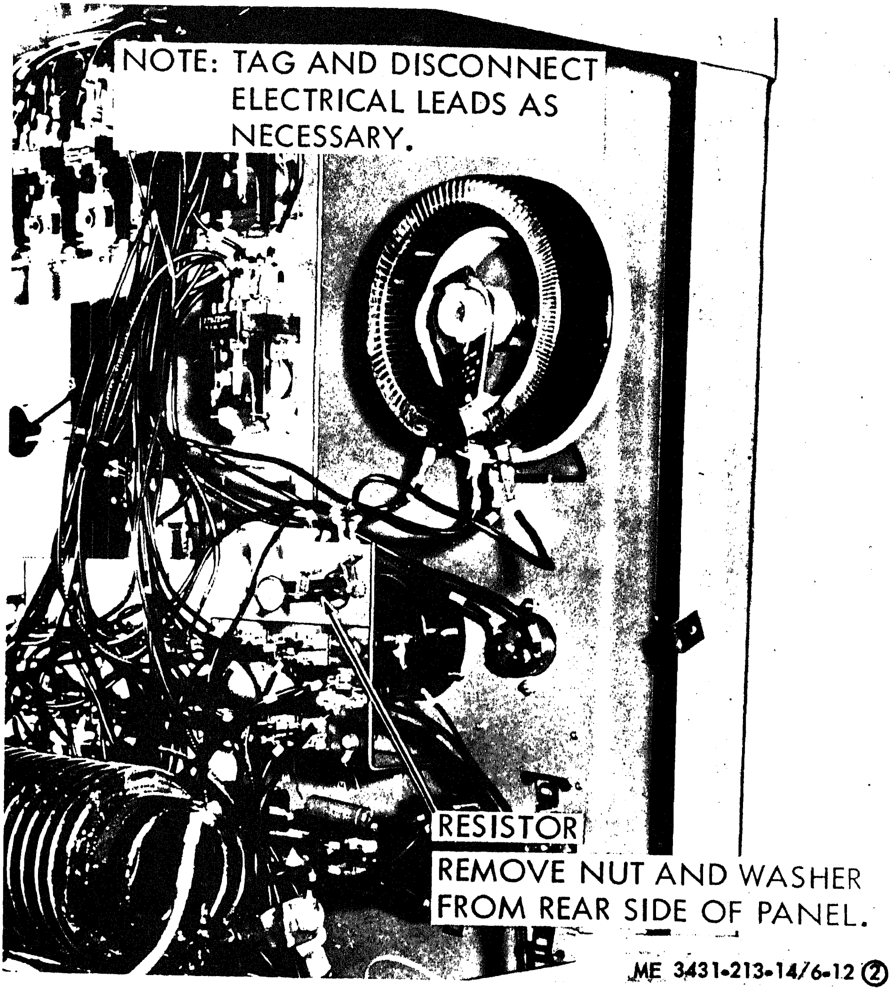

NOTE: TAG AND DISCONNECT ELECTRICAL LEADS AS NECESSARY.
RESISTOR
REMOVE NUT (2) FROM INSIDE OF FAN GUARD.
FAN GUARD
ME 3431-213-14/6-12 ①

Figure 6–12①. Resistors, removal and installation, Model DAR–300HFSG.



NOTE: TAG AND DISCONNECT ELECTRICAL LEADS AS NECESSARY.

REMOVE NUT AND WASHER FROM REAR SIDE OF PANEL.

*Figure 6–12*②—Continued.

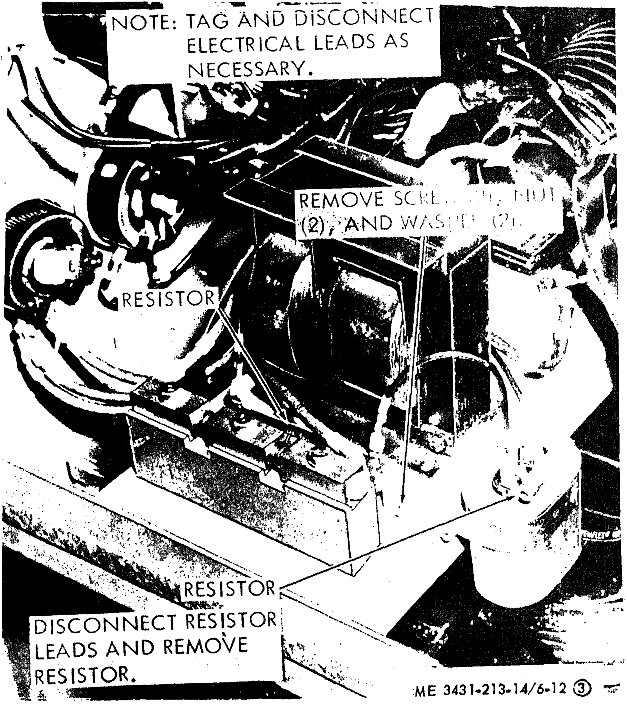

NOTE: TAG AND DISCONNECT ELECTRICAL LEADS AS NECESSARY.
REMOVE SCREW (2), NUT (2), AND WASHER (2)
RESISTOR
RESISTOR
DISCONNECT RESISTOR LEADS AND REMOVE RESISTOR.
ME 3431-213-14/6-12 ③

*Figure 6–12*③—Continued.

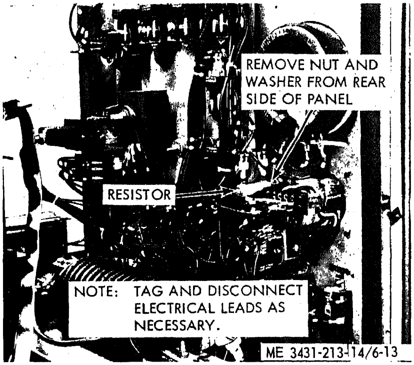

REMOVE NUT AND WASHER FROM REAR SIDE OF PANEL
RESISTOR
NOTE: TAG AND DISCONNECT ELECTRICAL LEADS AS NECESSARY.
ME 3431-213-14/6-13

Figure 6–13. Resistors, removal and installation, Model 2100H2007.

Section III. REACTORS, CONTROL RELAYS, AND RELAY PANEL TERMINAL BOARD

6–12. General

The stabilizing reactor assembly acts as a choke to smooth out the dc arc voltage. The saturable reactor assembly controls the amount of current available for both dc and ac welding. Control relays are used to control contactor and time actuation.

6–13. Stabilizing Reactor Assembly

a. Removal.

(1) Remove the side shrouds (para 3–13).

(2) Refer to figure 6–14 and remove the stabilizing reactor assembly.

b. Disassembly. Refer to figure 6–15 and disassemble the stabilizing reactor assembly.

c. Cleaning and Inspection.

(1) Clean all parts with a clean, dry cloth.

(2) Inspect for bare, broken, or corroded wires, defective insulation, evidence of overheating or other damage.

(3) Replace defective parts as necessary.

d. Test.

(1) Connect an ohmmeter to the coil leads and make a continuity check.

(2) Connect a megohmmeter to the coils, and check the insulation breakdown.

e. Reassembly. Refer to figure 6–15 and reassemble the stabilizing reactor assembly.

f. Installation.

(1) Refer to figure 6–14 and install the stabilizing reactor assembly.

(2) Install the side shrouds (para 3–13).

6–14. Saturable Reactor Assembly

a. Removal.

(1) Remove the side shrouds (para 3–13).

(2) Refer to figure 6–16 and remove the saturable reactor assembly.

b. Disassembly. Refer to figure 6–17 and disassemble the saturable reactor assembly.

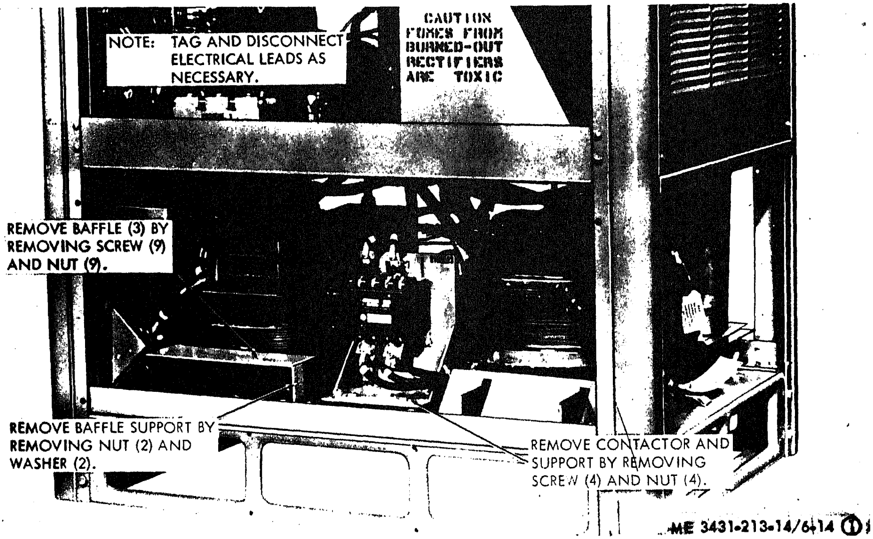

NOTE: TAG AND DISCONNECT ELECTRICAL LEADS AS NECESSARY.
CAUTION FUMES FROM BURNED-OUT RECTIFIERS ARE TOXIC
REMOVE BAFFLE (3) BY REMOVING SCREW (9) AND NUT (9).
REMOVE BAFFLE SUPPORT BY REMOVING NUT (2) AND WASHER (2).
REMOVE CONTACTOR AND SUPPORT BY REMOVING SCREW (4) AND NUT (4).
ME 3431-213-14/6-14 ①

Figure 6–14①. Stabilizing reactor assembly, removal and installation.

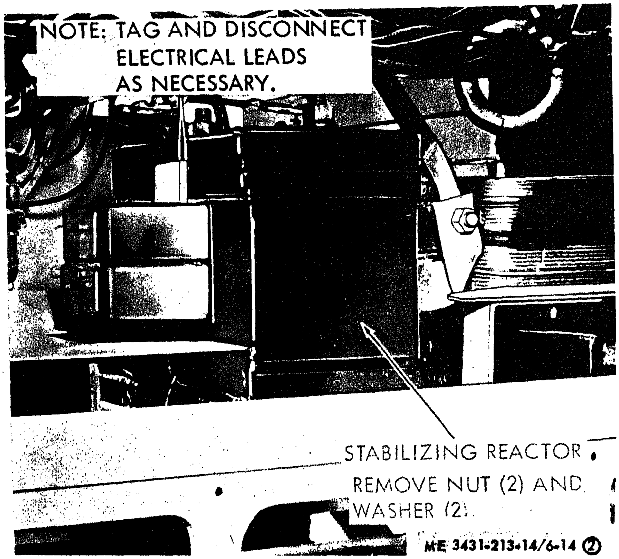

NOTE: TAG AND DISCONNECT ELECTRICAL LEADS AS NECESSARY.
STABILIZING REACTOR
REMOVE NUT (2) AND WASHER (2).
ME 3431-213-14/6-14 ②

*Figure 6–14*②—Continued.

c. Cleaning and Inspection.

(1) Clean all parts with a clean, dry cloth.

(2) Inspect for bare, broken, or corroded wires, defective insulation, evidence of overheating, or other damage.

(3) Replace defective parts as necessary.

d. Test.

(1) Connect an ohmmeter to the coil leads and make a continuity check.

(2) Connect a megohmmeter to the coils and check the insulation breakdown.

e. Reassembly. Refer to figure 6–17 and ressemble the saturable reactor assembly.

f. Installation.

(1) Refer to figure 6–16 and install the saturable reactor assembly.

(2) Install the side shrouds (para 3–13).

6–15. Control Relays

a. Removal.

(1) Remove the side shrouds (para 3–13).

(2) Refer to figures 6–7 and 6–8 and remove the six control relays.

b. Cleaning and Inspection.

(1) Clean the control relays with a clean, dry cloth.

(2) Inspect for breaks, cracks, burned or broken contacts, damaged or corroded terminals or other damage.

(3) Replace a defective control relay as necessary.

c. Installation.

(1) Refer to figures 6–7 and 6–8 and install the six control relays.

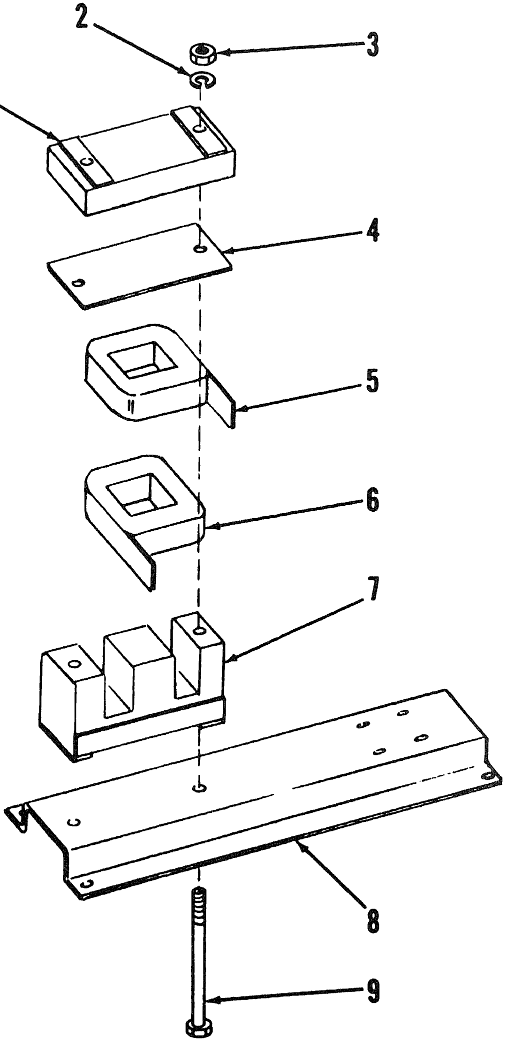
(2) Install the side shrouds (para 3–13).

6–16. Relay Panel Terminal Board

a. Removal.

(1) Remove the side shrouds (para 3–13).

(2) Refer to figures 6–7 and 6–8 and remove the relay panel terminal board.



ME 3431-213-14/6-15

1 Yoke
2 Washer, lock, ½ in. (2 rqr)
3 Nut, plain, hexagon, ½–13 (2 rqr)

4 Insulation set
5 Coil
6 Coil

7 Core
8 Support
9 Screw, cap, hexagon head, ½–13 x 7½ in. (2

Figure 6–15. Stabilizing reactor assembly, disassembly and reassembly.

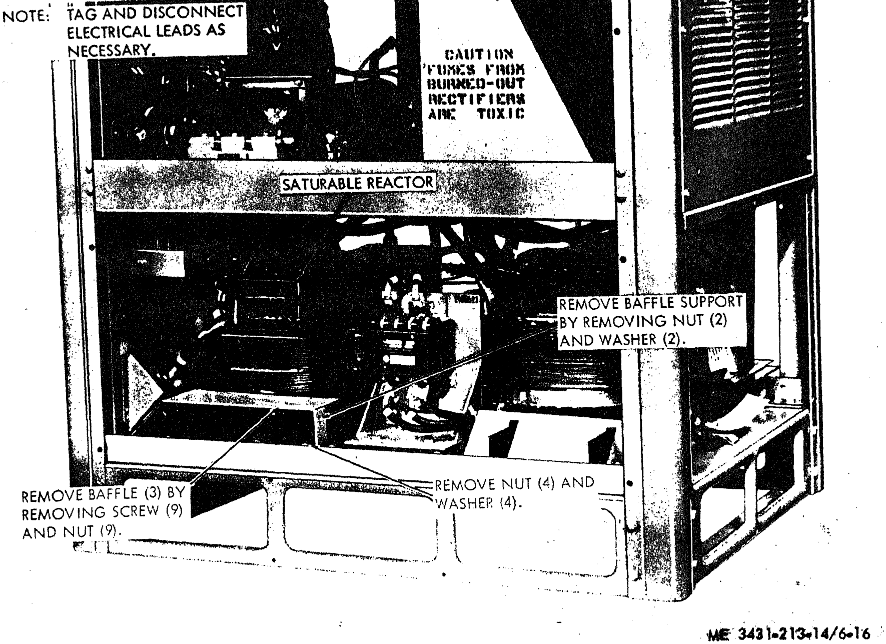

NOTE: TAG AND DISCONNECT ELECTRICAL LEADS AS NECESSARY.
CAUTION FUMES FROM BURNED-OUT RECTIFIERS ARE TOXIC
SATURABLE REACTOR
REMOVE BAFFLE SUPPORT BY REMOVING NUT (2) AND WASHER (2).
REMOVE BAFFLE (3) BY REMOVING SCREW (9) AND NUT (9).
REMOVE NUT (4) AND WASHER (4).
ME 3431-213-14/6-16

Figure 6–16. Saturable reactor assembly, removal and installation.

b. *Cleaning and Inspection.*

(1) Clean the terminal board with a clean, dry cloth.

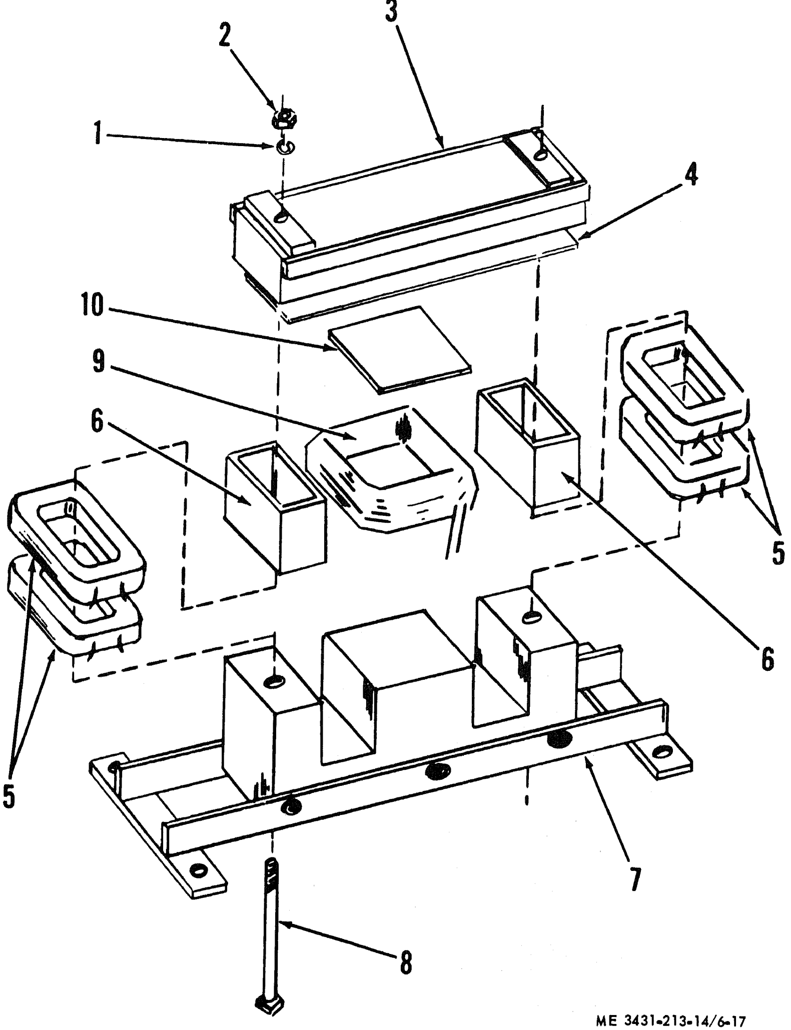
(2) Inspect for cracks, breaks, corroded terminals, or other damage.

(3) Replace a defective terminal board as necessary.

c. *Installation.*

(1) Refer to figures 6–7 and 6–8 and install the relay panel terminal board.

(2) Install the side shrouds (para 3-13).



1 Washer, lock, ½ in. (2 rqr)
2 Nut, plain, hexagon, ½–13 (2 rqr)
3 Yoke
4 Shim
5 Coil, dc exciter
6 Insulation set
7 Core and support
8 Screw, cap, hexagon head, ½–13 x 10 in. (2 rqr)
9 Coil, ac reactor
10 Insulator

Figure 6–17. Saturable reactor assembly, disassembly and reassembly.

Section IV. CURRENT TRANSFORMER AND SHUNT

6–17. General

The current transformer and shunt are used to reduce measurable current for ac and dc ammeters to practical values.

6–18. Current Transformer

a. Removal.

(1) Remove the side shrouds (para 3–13).

(2) Refer to figure 6–18 and remove the current transformer.

b. Cleaning and Inspection.

(1) Clean the current transformer with a clean, dry cloth.

(2) Inspect for damaged insulation or wire leads.

(3) Replace a defective current transformer as necessary.

c. Test. Connect an ohmmeter to the current transformer leads and check for continuity.

d. Installation.

(1) Refer to figure 6–18 and install the current transformer.

(2) Install the side shrouds (para 3–13).

6–19. Shunt

a. Removal.

(1) Remove the side shrouds (para 3–13).

(2) Refer to figure 6–18 and remove the shunt.

b. Cleaning and Inspection.

(1) Clean the shunt with an approved cleaning solvent and dry thoroughly.

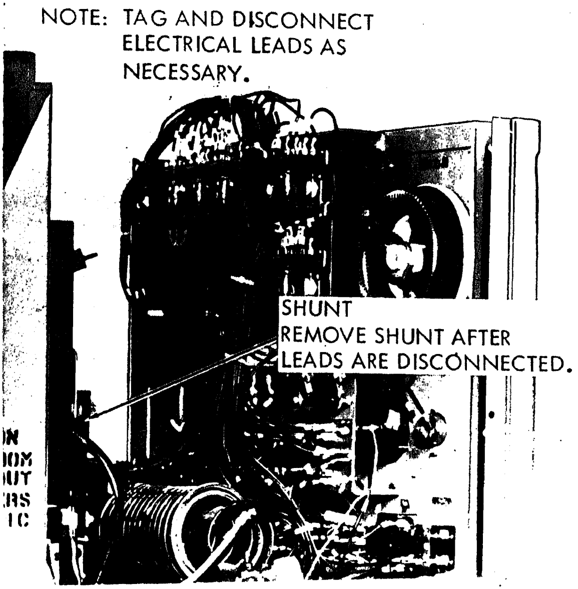
(2) Inspect the shunt for damage.

(3) Replace a defective shunt as necessary.

d. Installation.

(1) Refer to figure 6–18 and install the shunt.

(2) Install the side shrouds (para 3–13).

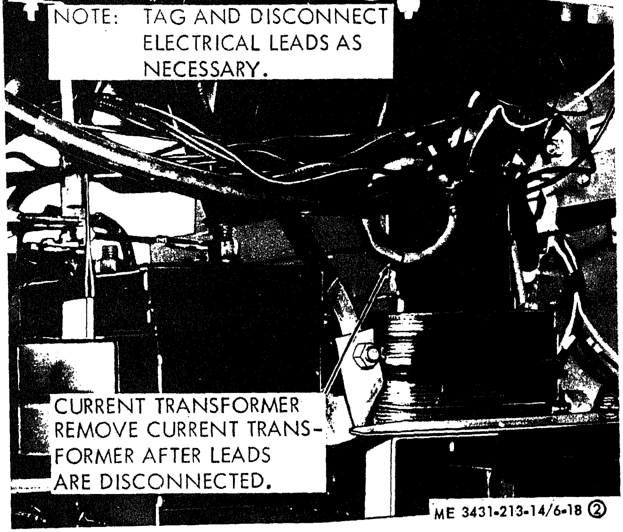


NOTE: TAG AND DISCONNECT ELECTRICAL LEADS AS NECESSARY.

SHUNT
REMOVE SHUNT AFTER LEADS ARE DISCONNECTED.

ME 3431-213-14/6-18 ①

Figure 6–18①. Current transformer and shunt removal and installation



NOTE: TAG AND DISCONNECT ELECTRICAL LEADS AS NECESSARY.

CURRENT TRANSFORMER REMOVE CURRENT TRANSFORMER AFTER LEADS ARE DISCONNECTED.

ME 3431-213-14/6-18 ②

*Figure 6–18*②—Continued.

Section V. REMOTE OUTPUT CONTROL RHEOSTAT ASSEMBLY AND FOOT SWITCH ASSEMBLY

6–20. General

The remote output control rheostat controls welding current within the selected range when the panel control remote control switch is in remote control position. The foot switch controls activation of the contractor for inert gas welding. An on-off foot switch and a separate remote output control rheostat are furnished with Model DAR–300HFSG. A combination foot on-off switch and remote output control is furnished with Model 2100H2007.

6–21. Remote Output Control Rheostat and Cable Assembly, Model DAR–300HFSG

a. Disassembly. Refer to figure 6–19 and disassemble the remote output control rheostat and cable assembly.

b. Cleaning and Inspection.

(1) Clean all metallic parts with an approved cleaning solvent and dry thoroughly. Clean the remote output control rheostat with a clean dry cloth.

---

1 Screw, self-tapping, thread forming, No. 6 x ⅜ in. (2 rqr)
2 Plate, identification
3 Washer, flat, No. 10 (11 rqr)
4 Screw, self-tapping, thread forming, No. 10 x ⅝ in. (10 rqr)
5 Shroud
6 Nut, sheet spring, No. 10 (10 rqr)
7 Rheostat
8 Housing
9 Nut, plain, hexagon, No. 6–32 (1 rqr)
10 Washer, lock, No. 10 (1 rqr)
11 Adapter
12 Cable assembly
13 Screw, machine, No. 10–32 x ⅝ in. (1 rqr)
14 Connector
15 Plate, instruction
16 Washer, lock, ¼ in. (2 rqr)
17 Screw, machine, ¼–20 x ⅝ in. (1 rqr)
18 Knob

Figure 6–19. Remote output control rheostat and cable assembly, disassembly and reassembly, Model DAR–300HFSG.

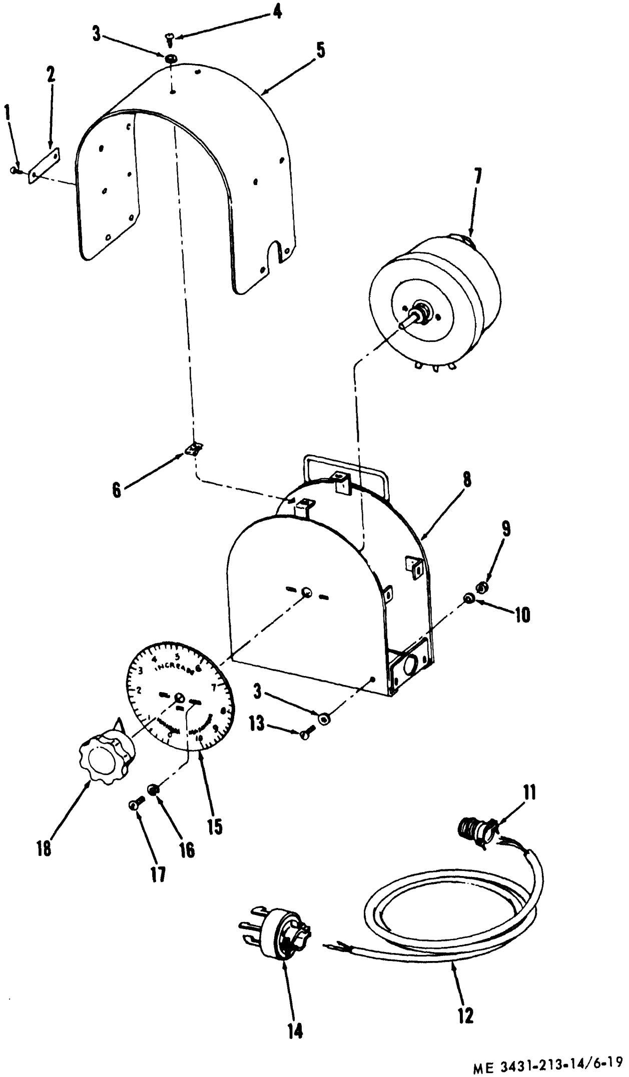


Figure 6–19—Continued.

other damage.

(3) Replace defective parts as necessary.

c. Test.

(1) Connect an ohmmeter to the two outer terminals of the rheostat and set the meter on RX1 scale. The reading should be 6.2 ohms. If reading is more or less than 6.2 ohms, replace the rheostat.

(2) Connect an ohmmeter to the center terminal and either outside terminal of the rheostat. Set the meter on RX1 scale. Turn the rheostat in either direction until it stops, then turn it in the opposite direction slowly and evenly until it stops again. The indicator on the meter should increase or decrease evenly according to the speed at which the rheostat is turned. If meter indicator does not function as described, replace the rheostat.

Note. Make sure that the ohmmeter used for the above tests is in proper working condition.

semble the remote output rheostat and cable assembly.

6–22. Foot Switch and Output Control Assembly, Model 2100H2007

a. Disassembly. Refer to figure 6–20 and dissemble the foot switch and output control assembly.

b. Cleaning and Inspection.

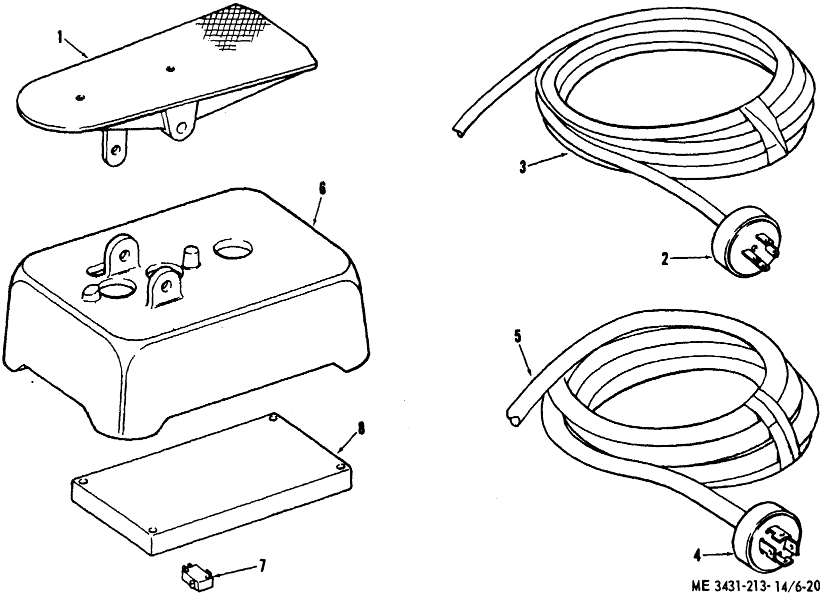
(1) Clean all metallic parts with an approved cleaning solvent and dry thoroughly. Clean the remote output control rheostat and the switch with a clean, dry cloth.

(2) Inspect for breaks, cracks, corrosion, burned or pitted contacts, or other damage.

(3) Replace defective parts as necessary.

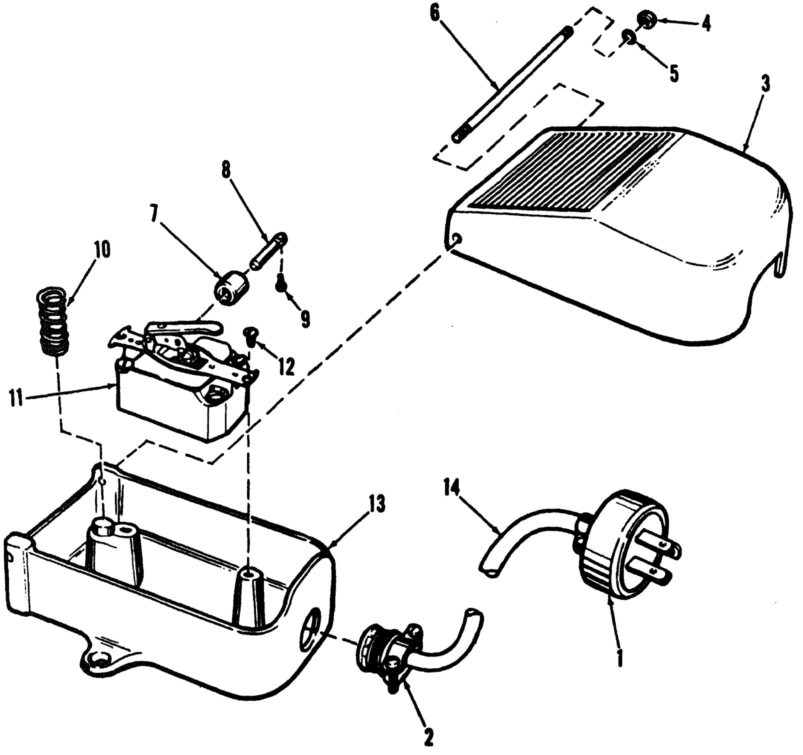
c. Test.

(1) Connect an ohmmeter to the two outer terminals of the rheostat and set the meter on the



1	Pedal	3	Cable	5	Cable	7	Switch
2	Plug	4	Plug	6	Case	8	Rheostat

Figure 6–20. Foot switch and output control, disassembly and reassembly, Model 2100H2007.



ME 3431-213-14/6-21

1 Connector
2 Adapter
3 Cover
4 Nut, cap, hexagon, No. 10–32 (2 rqr)
5 Washer, lock, No. 10 (2 rqr)
6 Stud
7 Roll, cam
8 **Stud**
9 **Screw, self-tapping, thread forming, No. 4 x 5/16 in. (1 rqr)**
10 **Spring**
11 **Switch**
12 **Screw, self-tapping, thread cutting, No. 6–32 x 3/8 in. (2 rqr)**
13 **Base**
14 **Cable assembly**

Figure 6–21. Foot switch and cable assembly, disassembly and reassembly. Model DAR–300HFSG.

RX1 scale. The reading should be 6.2 ohms. If reading is more or less than 6.2 ohms, replace the rheostat.

(2) Connect an ohmmeter to the center terminal and either outside terminal of the rheostat. Set the meter on the RX1 scale. Turn the rheostat in either direction until it stops, then turn it in the opposite direction slowly and evenly until it stops again. The indication on the meter should increase or decrease evenly according to the speed at which the rheostat is turned. If meter does not indicate as desired, replace the rheostat.

d. Reassembly. Refer to figure 6–20 and reassemble the foot switch and output control assembly.

6–23. Foot Switch and Cable Assembly, Model DAR–300HFSG

a. Disassembly. Refer to figure 6–21 and disassemble the foot switch and cable assembly.

b. Cleaning and Inspection.

(1) Clean all metallic parts with an approved cleaning solvent. Clean the switch with a clean, dry cloth.

(2) Inspect for breaks, cracks, corrosion, burned or pitted contacts, or other damage.

(3) Replace defective parts as necessary.

c. Reassembly. Refer to figure 6–21 and reassemble the foot switch and cable assembly.

Section VI. HIGH FREQUENCY INDUCTION COIL, HIGH FREQUENCY TRANSFORMER, CONTROL TRANSFORMER, AND MAIN TRANSFORMER ASSEMBLY

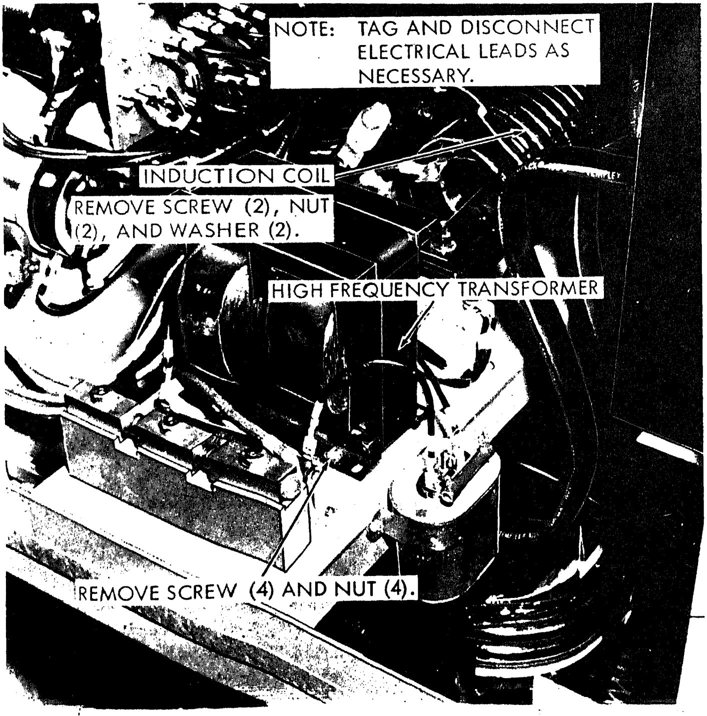
6–24. General

The high frequency induction coil superimposes the high frequency voltage generated by the spark gap assembly onto the output arc voltage. The high frequency transformer provides a voltage for high frequency generation by the spark gap assembly. The control transformer provides 115 and 24 volts ac for operation of the control circuits. The main transformer assembly provides low voltage welding current. Refer to paragraph 2–3 for high frequency grounding instructions.

6–25. Induction Coil

a. Removal.

(1) Remove the side shrouds (para 3–13).


NOTE: TAG AND DISCONNECT ELECTRICAL LEADS AS NECESSARY.
INDUCTION COIL
REMOVE SCREW (2), NUT (2), AND WASHER (2).
HIGH FREQUENCY TRANSFORMER
REMOVE SCREW (4) AND NUT (4).

ME 3431-213-14/6-22

(2) Refer to figure 6–22 and remove the high frequency induction coil.

b. Cleaning and Inspection.

(1) Clean the induction coil with a clean, dry cloth.

(2) Inspect for breaks, damaged or corroded wire, cut or dried-out insulation, or other damage.

(3) Replace a defective induction coil as necessary.

c. Test. Connect an ohmmeter to the induction coil leads and check for continuity.

d. Installation.

(1) Refer to figure 6–22 and install the induction coil.

(2) Install the side shrouds (para 3–13).

6–26. High Frequency Transformer

a. Removal.

(1) Remove the side shrouds (para 3–13).

(2) Refer to figure 6–22 and remove the high frequency transformer.

b. Cleaning and Inspection.

(1) Clean the high frequency transformer with a clean, dry cloth.

(2) Inspect for breaks, cracks, burned insulation, corrosion, bare wires, or other damage.

(3) Replace a defective transformer as necessary.

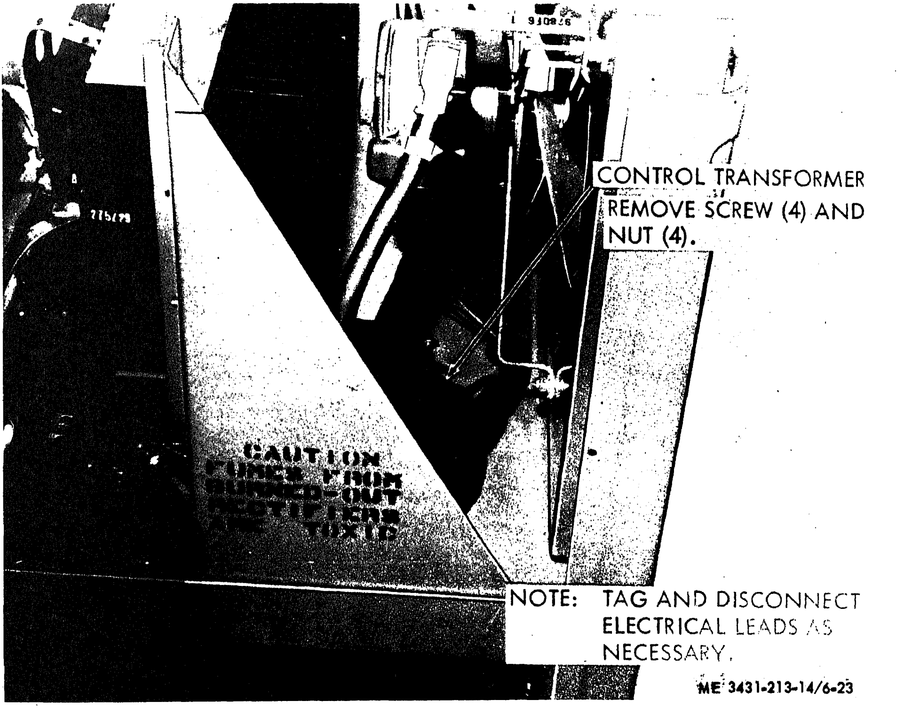
c. Test.

(1) Connect a voltmeter to the secondary leads.

(2) Connect a 230-volt power source to the primary winding of the transformer.

(3) The meter should read 3,000 volts. If the indicated reading is not obtained, replace the transformer.

Warning: **When making a test on the high frequency transformer, make sure the transformer is on an insulated bench. Do not touch the transformer, or wires leading from it. To do so may**



REMOVE SCREW (4) AND NUT (4).

NOTE: TAG AND DISCONNECT ELECTRICAL LEADS AS NECESSARY.

cause a serious electrical shock or possible death to personnel performing the test.

(4) Connect a megohmmeter to the coils and check the insulation breakdown.

d. Installation.

(1) Refer to figure 6–22 and install the high frequency transformer.

(2) Install the side shrouds (para 3–13).

6–27. Control Transformer

a. Removal.

(1) Remove the side shrouds (para 3–13).

(2) Refer to figure 6–23 and remove the control transformer.

b. Cleaning and Inspection.

(1) Clean the control transformer with a clean, dry cloth.

(2) Inspect for cracked, broken, or bent mounting bracket; bare, cut, or corroded wires; and other damage.

(3) Replace a defective transformer as necessary.

c. Test.

(1) Connect a 230-volt power source to leads 1 and 2 or 3 and 4.

(2) Connect a voltmeter to leads 7 and 8. The meter reading should be 24-volts.

(3) Connect the voltmeter to leads 5 and 6. The reading should be 115 volts.

(4) If the meter reading is other than that specified, replace the transformer.

(5) Connect a megohmmeter to the coils and check the insulation breakdown.

d. Installation.

(1) Refer to figure 6–23 and install the control transformer.

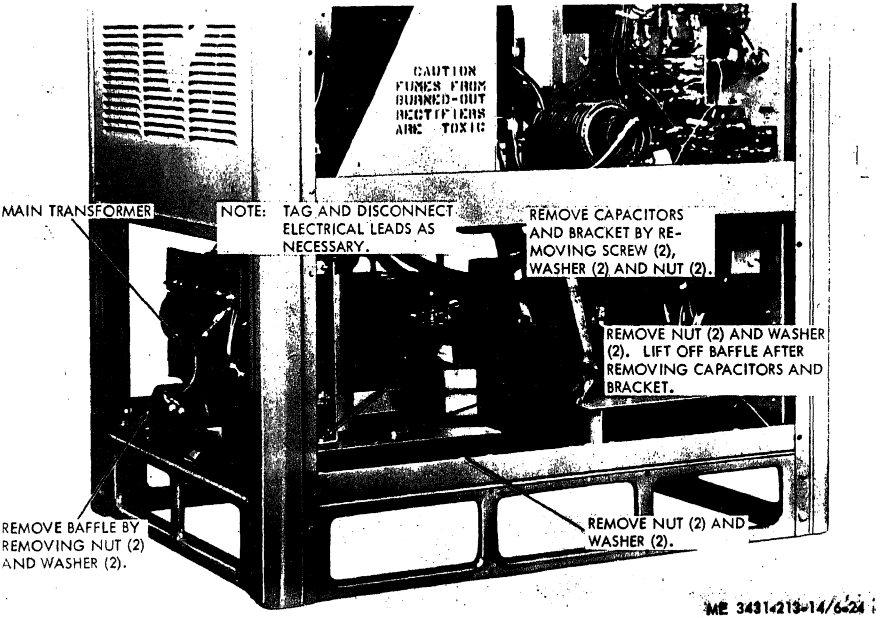
(2) Install the side shrouds (para 3–13).

6–28. Main Transformer Assembly

a. Removal.

(1) Remove the side shrouds and bottom rear shroud (para 3–13).

(2) Refer to figure 6–24 and remove the main transformer assembly.



MAIN TRANSFORMER

NOTE: TAG AND DISCONNECT ELECTRICAL LEADS AS NECESSARY.

REMOVE CAPACITORS AND BRACKET BY REMOVING SCREW (2), WASHER (2) AND NUT (2).

REMOVE NUT (2) AND WASHER (2). LIFT OFF BAFFLE AFTER REMOVING CAPACITORS AND BRACKET.

REMOVE BAFFLE BY REMOVING NUT (2) AND WASHER (2).

REMOVE NUT (2) AND WASHER (2).

ME 3431-213-14/6-24

b. Disassembly. Refer to figure 6–25 and disassemble the main transformer assembly.

c. Cleaning and Inspection.

(1) Clean all parts with a clean, dry cloth.

(2) Inspect all metal parts for cracks, breaks, or bends. Inspect for cut, torn, frayed, or burned insulation. Inspect for cut, broken, or corroded wires.

(3) Replace defective parts as necessary.

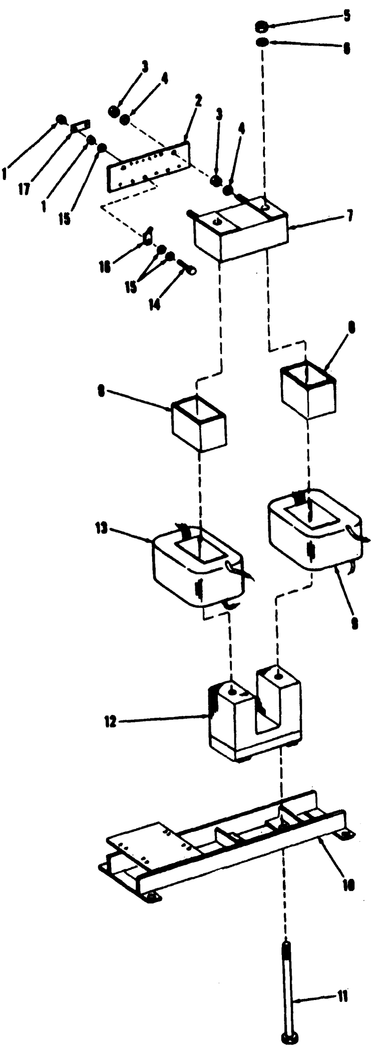
d. Test. Connect a megohmmeter to the coils and check the insulation breakdown.

e. Reassembly. Refer to figure 6–25 and ressemble the main transformer assembly.

f. Installation.

(1) Refer to figure 6–24 and install the main transformer assembly.

(2) Install the side shrouds and bottom rear shroud (para 3–13).



ME 3431-213-14/6-25

1	Nut, plain, hexagon, ¼–20 (18 rqr)
2	Terminal board
3	Nut, plain, hexagon, ½–20 (4 rqr)
4	Washer, flat, ½ in. (4 rqr)
5	Nut, plain, hexagon, ½–13 (2 rqr)
6	Washer, lock, ½ in. (2 rqr)
7	Yoke
8	Insulation set
9	Coil
10	Support
11	Screw, cap, hexagon head, ½–13 x 11½ in. (2 rqr)
12	Core
13	Coil
14	Screw, cap, hexagon head, ¼–20 x 1¼ in. (6 rqr)
15	Washer, flat, ¼ in. (18 rqr)
16	Terminal, quick disconnect
17	Link, Terminal connecting

Figure 6–25. Main transformer assembly, disassembly and reassembly.

6–29. General

The welding machine wire leads connect components of the welding machine through quick disconnect or screw type terminal connections.

6–30. Wire Leads

a. Cleaning and Inspection.

(1) Clean the wire leads with a clean, dry cloth.

(2) Inspect for cracked, cut, or dried-out insulation. Inspect for bare, cut, corroded, or broken wire leads and for corroded or broken wire leads and for corroded or damaged terminal lugs.

b. Test. To test a wire for continuity, disconnect each end of the wire from the component or components to which it is connected. Touch the test probes of multimeter to each end of the wire. If continuity is not indicated, the wire is defective and must be repaired or replaced (*c* and *d* below).

c. Repair. Shave the insulation on the wire to expose one-half inch of bare wire at both ends of the break. Twist the bare wire together and solder the connection. Cover the repaired break with electrical tape. Do not leave any bare wire exposed. If a terminal lug is damaged, or breaks off a wire, replace it, using an exact duplicate terminal lug.

d. Replacement. Replace a wire by disconnecting it from the component or components to which it is attached and remove the wire. Install a new wire and connect it to the component or components.

Section VIII. WELDING MACHINE FRAME

6–31. General

The welding machine frame consists of a base, four uprights; two side rails, and two mounting angles. Remove the control panel, cover, side shrouds, and rear shrouds which enclose the frame. Remove air baffles and internally mounted components which are assembled to the frame.

6–32. Welding Machine Frame

a. Dissassembly. Disassemble as indicated in figure 6–26.

b. Cleaning and Inspection.

(1) Clean all parts with an approved cleaning solvent and dry throughly.

(2) Inspect for breaks, cracks, elongated mounting holds, damaged stud threads, or other damage.

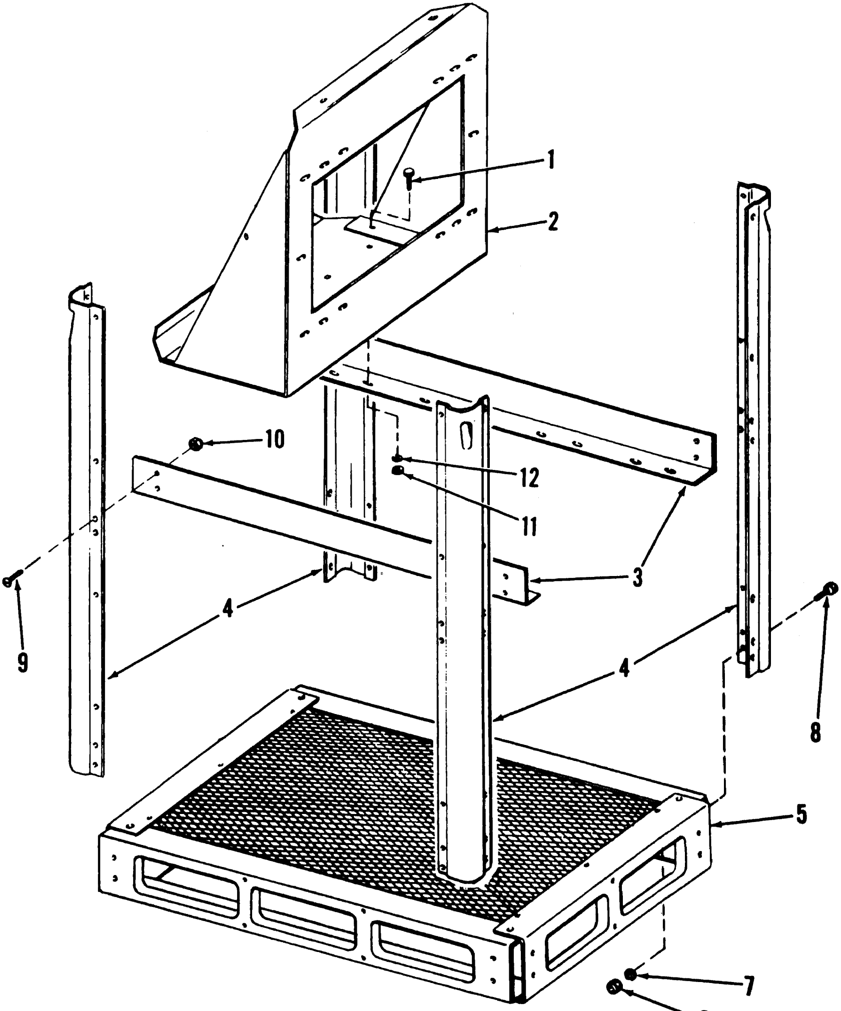
(3) Replace a defective part as necessary.

c. Reassembly. Reassemble as indicated in figure 6–26. Replace air baffles and internally mounted components which are assembled to the frame. Replace the control panel, cover, side shrouds, and rear shrouds which enclose the frame.

---

1 Screw, cap, hexagon head, ¼–20 x ½ in. (4 rqr)
2 Baffle, rectifier
3 Side rail
4 Upright
5 Base
6 Nut, plain, hexagon, 5/16–18 in. (16 rqr)
7. Washer, lock, 5/16 in. (16 rqr)
8 Screw, cap, hexagon head, 5/16–18 x ¾ in. (16 rqr)
9 Screw, machine, ¼–20 x ⅝ in. (8 rqr)
10 Nut, self-locking, hexagon, ¼–20 (8 rqr)
11 Nut, plain, hexagon, ¼–20 (4 rqr)
12 Washer, lock, ¼ in. (4 rqr)

Figure 6–26. Machine frame, disassembly and reassembly.



ME 3431-213-14/6-26

Figure 6–26.—Continued.

APPENDIX A

REFERENCES

A–1. Fire Protection

TB 5–4200–200–10	Hand Portable Fire Extinguishers for Army Users

A–2. Painting

TM 9–213	Painting Instructions for Field Use

A–3. Radio Suppression

TM 11–483	Radio Interference Suppression

A–4. Maintenance

TM 38–750	Army Equipment Record Procedures
TM 5–764	Electric Motor and Generator Repair

A–5. Shipment and Limited Storage

TM 38–230	Preservation, Packaging, and Packing of Military Supplies and Equipment

APPENDIX B

BASIC ISSUE ITEMS LIST

Section I. INTRODUCTION

B–1. Scope

This appendix lists items which accompany the welding machine or are required for installation, operation, or operator's maintenance.

B–2. General

This Basic Issue Items List is divided into the following sections:

a. Basic Issue Items—Section II. A list of items which accompany the welding machine or are required for the installation, operation, or operator's maintenance.

b. Maintenance and Operating Supplies—Section III. Not applicable.

B–3. Explanation of Columns

The following provides an explanation of columns in the tabular list of basic issue items, section II.

a. Source, Maintenance, and Recoverability Codes (SMR), Column (1).

Note. Common hardware items known to be readily available in Army supply will be assigned Maintenance Codes only. Source Codes, Recoverability Codes, and Quantity Authorized will not be assigned to this category of items.

(1) Source Code, indicates the selection status and source for the listed item. Source codes are:

Code	*Explanation*
P	Applied to repair parts which are stocked in or supplied from GSA/DSA or Army supply system, and authorized for use at indicated maintenance categories.

(2) Maintenance Code, indicates the lowest category of maintenance authorized to install the listed item. The maintenance level code is:

Code	*Explanation*
C	Operator/crew

(3) Recoverability codes. Not applicable.

b. Federal Stock Number, Column (2). This column indicates the Federal stock number for the item.

c. Description, Column (3). This column indicates the Federal item name and any additional description of the item required. A part number or other reference number is followed by the applicable five-digit Federal supply code for manufacturers in parentheses. Repair parts quantities included in kits, sets, and assemblies are shown in front of the repair part name.

d. Unit of Issue, Column (4). This column indicates the unit used as a basis for issue, e.g., ea, pr, ft, yd, etc.

e. Quantity Incorporated in Unit Pack, Column (5). This column indicates the actual quantity contained in the unit pack.

f. Quantity Incorporated in Unit, Column (6). This column indicates the quantity of the item used in the functional group.

g. Quantity Furnished With Equipment, Column (7). This column indicates the quantity of an item furnished with the equipment.

h. Quantity Authorized, Column (8). This column indicates the quantity of an item authorized the operator/crew to have on hand or to obtain as required. As required items are indicated with an asterisk.

i. Illustration, Column (9). This column is divided as follows:

(1) *Figure number, column (9)(a).* Indicates the figure number of the illustration in which the item is shown.

(2) *Item number, column (9)(b).* Indicates the callout number used to reference the item in the illustration.

B–4. Abbreviations

Ea	Each
Ft	Feet
Lg	Length
In	Inch
Dia	Diameter

Section II. Basic Issue Items

(1) SMR code	(2) Federal stock number	(3) Description Ref No. & Mfr Code Useable on Code	(4) Unit of issue	(5) Qty inc in unit pack	(6) Qty inc in unit	(7) Qty furn with equip	(8) Qty auth	(9) Illustration (a) Fig. No.	(9) Illustration (b) Item No.
		GROUP 31—BASIC ISSUE ITEMS, MANUFACTURER INSTALLED							
		3100—BASIC ISSUE ITEMS, MANUFACTURER OR DEPOT INSTALLED							
PC	7510-889-3494	BINDER, LOG	EA	-----	-----	1	1		
PC	7520-599-9618	CASE: maintenance and operational manuals, cotton duck. water repellent, mildew resistent, MIL-B-11743B.	EA	-----	-----	1	1		
		DEPARTMENT OF THE ARMY OPERATOR, ORGANIZATIONAL DIRECT AND GENERAL SUPPORT, AND DEPOT MAINTENANCE MANUAL WITH REPAIR PARTS LIST TM 5-3431-213-15.	EA	-----	-----	1	1		
PC	4210-555-8837	EXTINGUISHER, FIRE MONOBROMOTRIFLUOROMETHANE: 2.75 lbs.	EA	-----	-----	1	1		
		GROUP 32—BASIC ISSUE ITEMS, TROOP INSTALLED							
		3200—BASIC ISSUE ITEMS, TROOP INSTALLED OR AUTHORIZED							
PC	5975-243-5861	CLAMP, ELECTRICAL: ground rod, ½ to 1 in. inside dia.	EA	-----	-----	1	*		
PC	5975-642-8937	ROD, GROUND: 9 ft lg, ⅝ in. dia. cone point, 3 sections	EA	-----	-----	1	*		
MC		WIRE, GROUND	EA	-----	-----	1	1		
		MANUFACTURE FROM:							
PC	6145-284-0656	WIRE, ELECTRICAL: No. 6 AWG (10 ft. required)	FT	-----	-----	-----	10		

APPENDIX C

MAINTENANCE ALLOCATION CHART

Section I. INTRODUCTION

C–1. General

a. This section provides a general explanation of all maintenance and repair functions authorized at various maintenance levels.

b. Section II designates overall responsibility for the performance of maintenance functions on the identified end item or component. The implementation of the maintenance functions upon the end item or component will be consistent with the assigned maintenance functions.

c. Section III—Not applicable.

d. Section IV—Not applicable.

C–2. Explanation of Columns in Section II

a. Group Number, Column (1). The functional group is a numerical group set up on a functional basis. The applicable functional grouping indexes (obtained from TB 750–93–1, Functional Grouping Codes) are listed on the MAC in the appropriate numerical sequence. These indexes are normally set up in accordance with their function and proximity to each other.

b. Functional Group, Column (2). This column contains a brief description of the components of each functional group.

c. Maintenance Functions, Column (3). This column lists the various maintenance functions (A through K) and indicates the lowest maintenance category authorized to perform these functions.

The symbol designations for the various maintenance categories are as follows:

O—Organizational maintenance
F—Direct support maintenance
H—General support maintenance

The maintenance functions are defined as follows:

A—Inspect: To determine serviceability of an item by comparing its physical, mechanical, and electrical characteristics with established standards.

B—Test: To verify serviceability and to detect electrical or mechanical failure by use of test equipment.

C—Service: To clean, to preserve, to charge, to paint, and to add fuel, lubricants, cooling agents, and air.

D—Adjust: To rectify to the extent necessary to bring into proper operating range.

E—Align: To adjust specified variable elements of an item to bring to optimum performance.

F—Calibrate: To determine the corrections to be made in the readings of instruments or test equipment used in precise measurement. Consists of the comparisons of two instruments, one of which is a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared with the certified standard.

G—Install: To set up for use in an operational environment such as an emplacement, site, or vehicle.

H—To replace unserviceable items with serviceable assemblies, subassemblies, or parts.

I—Repair: To restore an item to serviceable condition. This includes, but is not limited to, inspection, cleaning, preserving, adjusting, replacing, welding, riveting, and strengthening.

J—Overhaul: To restore an item to a completely serviceable condition as prescribed by maintenance serviceability standards using the Inspect and Repair Only as Necessary (IROAN) technique.

K—Rebuild: To restore an item to a standard as nearly as possible to original or new condition in appearance, performance and life expectancy. This is accomplished through complete disassembly of the item, inspection of all parts or components, repair or replacement of worn or unserviceable elements (items) using original manufacturing tolerances and specifications, and subsequent reassembly of the item.

d. Tools and Equipment, Column (4). Not applicable.

e. Remarks, Column (5). Not applicable.

Section II. Maintenance Allocation Chart

(1)	(2)	(3)											(4)	(5)
		Maintenance functions												
Group No.	Functional group	A	B	C	D	E	F	G	H	I	J	K	Tools and equipment	Remarks
		Inspect	Test	Service	Adjust	Align	Calibrate	Install	Replace	Repair	Overhaul	Rebuild		
22	MISCELLANEOUS BODY, CHASSIS OR HULL, AND ACCESSORY ITEMS													
2210	Data Plates and Instruction Holders													
	Plate, data (C.O.E.)	O							F					
	Plate, instruction	O							O					
44	WELDING, METALIZING, METAL HEATING AND PLATING EQUIPMENT													
4400	Arc Welder													
	Welding machine, arc: general and inert gas shielded, transformer-rectifier type, ac and dc; 300 amp	O	F	O				F	F	F	H			
4405	Frame Support, Housing, Carrier													
	Cover, top	O							O					
	Housing, welder	O							O					
	Door, rear terminal	O							O					
	Base, welder	O							F					
4006	Ventilating, Cooling System													
	Blade, fan	O							O					
	Motor, fan	O							O					
	Guard, fan	O							O					
4007	Control Panels, Housing													
	Panels, control and high frequency	F							F					
	Switch, control	O							O					
	Wiring assembly								F	F				
4408	Connecting Devices													
	Receptacle, remote control	O							O					
	Terminal board, ground and electrode	O							O					
4409	Protective Devices, Electrical													
	Switch, thermostatic	O							O					
	Fuses and holders	O							O					
4410	Switching, Timing and Speed													
	Switch, control	O							O					
	Switch and cable assembly remote control								O	F				
	Timer, plug-in	O							O					
	Relay, timer	F							F					
	Spark gap assembly	O			O				O					
	Contactor	O							O					
	Valve, solenoid	O							O					
	Switch, range								F	F				
	Switch, polarity	F							F					
	Capacitor		F						F					
4411	Resistor Components													
	Resistor		F						F					
	Rheostat, fixed or variable	F	F						F					
4412	Transformer Components													
	Transformer, main		H						H	H				
	Transformer (230V)		F						F					
	Coil, Inductance		F						F					
	Transformer, control		F						F					
	Capacitor, power		F						F					
	Coil assembly		F						F					
4413	Rectifier Components													
	Rectifier assembly	F							F					
	Rectifier, control	F							F					

APPENDIX D

ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOL LISTS

Section I. INTRODUCTION

D–1. Scope

This appendix lists repair parts, special tools, test and support equipment required for the performance of organizational, direct support and general support maintenance of the welding machine.

D–2. General

a. The repair parts list is arranged as follows:

(1) Individual parts and major assemblies are listed alphabetically by item name within the numbered functional groups.

(2) Assembly components and subassemblies are indented and listed alphabetically by item name under major assemblies.

b. This Repair Parts and Special Tools List is divided into the following sections:

(1) *Prescribed Load Allowance (PLA)—Section II.* A consolidated listing of repair parts quantitatively allocated for initial stockage at the organizational level. *This is a mandatory minimum stockage allowance.*

(2) *Repair Parts—Section III.* A list of repair parts authorized for the performance of maintenance at the organizational level.

(3) *Special Tools, Test and Support Equipment—Section IV.* Not applicable.

(4) *Repair Parts—Section V.* A list of repair parts authorized for the performance of maintenance at the direct support and general support level.

(5) *Special Tools, Test and Support Equipment—Section VI.* Not applicable.

(6) *Federal Stock Number and Reference Number Index—Section VII.* A list of Federal Stock numbers followed by reference numbers, appearing in all the listings, in ascending alpha-numeric sequence cross-referenced to index number.

D–3. Explanation of Columns

The following provides an explanation of columns in the tabular lists.

a. Source, Maintenance, and Recoverability Codes (SMR).

Note. Common hardware items known to be readily available in Army supply channels will be assigned Maintenance codes only. Source codes, Recoverability codes, and Maintenance Allowances will not be assigned to this category.

(1) *Source Code.* Indicates the selection status and source for the listed item. Source codes used are:

Code	*Explanation*
P	Applied to repair parts which are stocked in or supplied from DSA/GSA or Army supply system, and authorized for use at indicated categories.
P2	Applied to repair parts which are procured and stocked for insurance purposes because the combat or military essentiality of the end item dictates that a minimum quantity be available in the supply system.
M	Applied to repair parts which are not procured or stocked but are to be manufactured at indicated maintenance categories.
A	Applied to assemblies which are not procured or stocked as such but are made up of two or more units, each of which carry individual stock numbers and descriptions and are procured and stocked and can be assembled by units at indicated maintenance categories.
X	Applied to parts and assemblies which are not procured or stocked; the mortality of which normally is below that of the applicable end item; and the failure of which should result in retirement of the end item from the supply system.
X1	Applied to repair parts which are not procured or stocked, the requirement for which will be supplied by use of the next higher assembly or component.
X2	Applied to repair parts which are not stocked. The indicated maintenance category requiring such repair parts will attempt to obtain them through cannibalization; if not obtainable through cannibalization, such repair parts will

Code	Explanation
	be requisitioned with supporting justification through normal supply channels.
C	Applied to repair parts authorized for local procurement. If not obtainable from local procurement, such repair parts will be requisitioned through normal supply channels with a supporting statement of nonavailability from local procurement.
G	Applied to major assemblies that are procured with PEMA (Procurement Equipment Missile Army) funds for initial issue only to be used as exchange assemblies at DSU and GSU maintenance level. These assemblies will not be stocked above DSU and GSU level or returned to depot level.

(2) *Maintenance Code.* Indicates the lowest category of maintenance authorized to install the listed item. The maintenance codes are:

Code	Explanation
O	Organizational maintenance
F	Direct support maintenance
H	General support maintenance

(3) *Recoverability Code.* Indicates whether unserviceable items should be returned for recovery or salvage. Items not coded are expendable. Recoverability codes are:

Code	Explanation
R	Applied to repair parts and assemblies which are economically repairable at DSU and GSU activities and which are normally furnished by supply on an exchange basis.
S	Applied to repair parts and assemblies which are economically repairable at DSU and GSU activities and which normally are furnished by supply on an exchange basis. When items are determined by a GSU to be uneconomically repairable, they will be evacuated to a depot for evaluation and analysis before final disposition.
T	Applied to high dollar value recoverable repair parts which are subject to special handling and are issued on an exchange basis. Such repair parts are normally repaired or overhauled at depot maintenance activities.
U	Applied to repair parts specifically selected for salvage by reclamation units because of precious metal content, critical materials, high dollar value reusable casings or castings.

(4) This column also lists, below the SMR ode, an index number for each item in ascending numerical sequence, which is used to locate items n the publication when the Federal stock number and/or reference number is known.

b. Federal Stock Number. Indicates the Federal stock number for the item.

c. Description. Indicates the Federal item name and any additional description of the item required. A part number or other reference number is preceded by the applicable five-digit Federal supply code for manufacturers in parentheses. Repair parts quantities included in the kits, sets, and assemblies are shown in front of the repair part name.

d. Unit of Issue. Indicates the unit used as a basis for issue, e.g., ea, pr, ft, yd, etc.

e. Quantity Incorporated in Unit Pack. Indicates the actual quantity contained in the unit pack.

f. Quantity Incorporated in Unit. Indicates the quantity of the item used in the functional group.

g. Fifteen-Day Organizational Maintenance Allowances.

(1) The allowance columns are divided into four subcolumns. Indicated in each subcolumn opposite the first appearance of each item is the total quantity of items authorized for the number of equipments supported. Items authorized for use as required but not for initial stockage are identified with an asterisk in the allowance column.

(2) The quantitative allowances for organizational level of maintenance represents one initial prescribed load for a 15-day period for the number of equipments supported. Units and organizations authorized additional prescribed loads will multiply the number of prescribed loads authorized by the quantity of repair parts reflected in the appropriate density column to obtain the total quantity of repair parts authorized.

(3) Organizational units providing maintenance for more than 100 of these equipments shall determine the total quantity of parts required by converting the equipment quantity to a decimal factor by placing a decimal point before the next to last digit of the number to indicate hundredths, and multiplying the decimal factor by the parts quantity authorized in the 51–100 allowance column. Example, authorized allowance for 51–100 equipments is 12; for 140 equipments multiply 12 by 1.40 or 16.80 rounded off to 17 parts required.

(4) Subsequent changes to allowances will be limited as follows: No change in the range of items is authorized. If additional items are considered necessary, recommendation should be forwarded to U. S. Army Mobility Equipment Command for exception or revision to the allowance list. Revisions to the range of items authorized will be made by this Command based upon engineering experience, demand data, or TAERS information.

h. Thirty-Day DS/GS Maintenance Allowances.

(1) The allowance columns are divided into three subcolumns. Indicated in each subcolumn, opposite the first appearance of each item, is the

total quantity of items authorized for the number of equipments supported. Items authorized for use as required but not for initial stockage are identified with an asterisk in the allowance column.

(2) The quantitative allowances for DS/GS levels of maintenance will represent initial stockage for 30-day period for the number of equipments supported.

(3) Determination of the total quantity of parts required for maintenance of more than 100 of these equipments can be accomplished by converting the equipment quantity to a decimal factor by placing a decimal point before the next to last digit of the number to indicate hundredths, and multiplying the decimal factor by the parts quantity authorized in the 51–100 allowance column. Example, authorized allowance for 51–100 equipments is 40; for 150 equipments multiply 40 by 1.50 or 60 parts required.

i. One-Year Allowances Per 100 Equipments/Contingency Planning Purposes. Indicates opposite the first appearance of each item the total quantity required for distribution and contingency planning purposes. The range of items indicates total quantities of all authorized items required to provide for adequate support of 100 equipments for one year.

j. Illustration.

(1) *Figure number.* Indicates the figure number of the illustration in which the item is shown.

(2) *Item number.* Indicates the callout number used to reference the item in the illustration.

D–4. Special Information

a. Identification of the usable on codes of this publication are:

Code	*Used on*
A	Model DAR–300HFSG
B	Model 2100H2007 (These parts apply to machines in serial number range G32776 through G32880 and G33002 and up).

Items not coded are used on both models.

b. Repair parts mortality has been based on 1,500 hours of operation per year.

c. Parts which require manufacture or assembly at a category higher than that authorized for installation will indicate in the source column the higher category.

D–5. How to Locate Repair Parts

a. When Federal Stock Number or reference

(1) *First.* Using the table of contents, determine the functional group or subgroup within which the repair part belongs. This will refer to a page in the parts listing.

(2) *Second.* The illustration column of the page refers to a figure number.

(3) *Third.* Locate the figure and identify the repair parts, noting the item number.

(4) *Fourth.* Refer back to the page of the parts listing. Find the item number in the illustration column that corresponds with the figure number.

b. When Federal Stock Number or reference number is known:

(1) *First.* Using the Index of Federal Stock Numbers and Reference Numbers, find the pertinent Federal stock number or reference number. This index is in ascending alphanumeric sequence cross-referenced to an index number.

(2) *Second.* Using the Repair Part Listing, find the index number referenced in the Index of Federal Stock Numbers and Reference Numbers.

D–6. Abbreviations

ac	alternating current
awg	American Wire Gauge
dc	direct current
id	inside diameter
lg	long
mtg	mounting
od	outside diameter
thd	thread

D–7. Federal Supply Codes for Manufacturers

Code	*Manufacturers*
01002	General Electric Co. Capacitor Dept.
03516	General Electric Co. Meter Dept.
04009	Arrow-Hart & Hegeman Electric Co.
05402	Controls Co. of America
08285	Little Products Co.
08288	Military Supply Stands
08931	General Electric Co. Medium Transformer Dept.
09922	Burndy Corp.
12584	Smith AD Corp. Clark Control Div.
14403	Automatic Switch Co.
14655	Cornell-Dubilier Electric Corp.
27191	Cutler-Hammer, Inc. Power Distribution and Control Div.
27315	Harnischfeger Corp.
30703	Industrial Timer Corp.
37942	P. R. Mallory & Co. Inc.
39595	Meier Electric & Machine Co., Inc.
44655	Ohmite Mfg. Co.
59730	The Thomas & Betts Co.
70411	Anderson Brass Co.

Code	Manufacturers
70611	Ark-Les Switch Corp.
71400	Bussman Mfg. Division of McGraw-Edison Co.
71785	Cinch Mfg. Co. and Howard B. Jones Div.
72765	Drake Mfg. Co.
72962	Elastic Stop Nut Corp. of America
73506	Bradley Semiconductor Corp.
74545	Harvey Hubbell, Inc.
77342	Potter & Brumfield Div. of American Machine & Foundry Co.
78189	Shakeproof Div. of Illinois Tool Works Inc.
78553	Tinnerman Products, Inc.
81091	Pass & Seymour, Inc.
81093	Syntron Co.
81348	Federal Specifications Promulgated By Standardizations Div. Directorate of Logistic Services DSA
81483	International Rectifier Corp.
89110	Amp, Inc.
96906	Military Standards
97918	Linemaster Switch Corp.
99017	CA Plugs Division Protective Closures Co., Inc.

Section II. Prescribed Load Allowance

(1) Federal stock number	(2) Description	useable on code	(3) 15-day org maint. alw (A) 1-5	(B) 6-20	(C) 21-50	(D) 51-100
	GROUP 44—WELDING					
	4405—FRAME SUPPORT, HOUSING, CARRIER, ETC					
5325-012-4374	GROMMET, PLASTIC: rectifier baffle (27315) 287Z31D15		--------	--------	--------	2
5325-012-4376	GROMMET, PLASTIC: rectifier baffle (27315) 287Z31D16		--------	--------	--------	2
	4408—CONNECTING DEVICES					
5935-012-4417	CONNECTOR, PLUG, ELECTRICAL: switch cable (81091) 7251	(A)	--------	--------	--------	2
	4409—PROTECTIVE DEVICES, ELECTRICAL					
5920-280-9312	FUSE, PLUG: control panel (71400) S5-6/10		--------	--------	--------	2
	4410—SWITCHING, TIMING, AND SPEED CONTROL					
3431-012-4362	SPARK GAP ASSEMBLY (27315) 9579F81-1	(A)	--------	2	2	2
4810-012-4355	VALVE, SOLENOID: water and gas control (05402) 70291-063	(A)	--------	--------	--------	2

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 15-DAY ORGANIZATIONAL MAINTENANCE ALW (a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100	(7) ILLUS-TRATION (a) FIG. NO.	(b) ITEM NO.
00001		SECTION III - REPAIR PARTS FOR ORGANIZATIONAL MAINTENANCE									
00001A		GROUP 22 - BODY, CHASSIS OR HULL, AND ACCESSORY ITEMS									
00002		2210 - DATA PLATES									
X20 00003		PLATE, IDENTIFICATION: AXILLARY AC POWER (27315) 232H277	A	EA	1					D3	62
X20 00004		PLATE, IDENTIFICATION: AXILLARY AC POWER (27315) 232H473	B	EA	1					D4	18
X20 00006		PLATE, IDENTIFICATION: GAS AND WATER (27315) 232F110	A	EA	1					D3	65
X20 00007		PLATE, IDENTIFICATION: GAS AND WATER (27315) 232F289	B	EA	1					D4	19
X20 00009		PLATE, IDENTIFICATION: GROUND AND ELECTRODE (27315) 232H275	A	EA	1					D3	50
X20 00010		PLATE, IDENTIFICATION: GROUND AND ELECTRODE (27315) 232H475	B	EA	1					D4	16
X20 00011		PLATE, IDENTIFICATION, HARNISCHFEGER CORP (27315) 232E113	A	EA	1					D3	2
X20 00012		PLATE, IDENTIFICATION, HARNISCHFEGER CORP (27315) 232E143	B	EA	1					D4	1
X20 00013		PLATE, IDENTIFICATION: OUTPUT VOLTAGE SIGNAL (27315) 232H334	A	EA	1					D3	11
X20 00014		PLATE, IDENTIFICATION: POST-PURGE (27315) 232H333	A	EA	1					D3	5
X20 00016		PLATE, IDENTIFICATION: PRE-PURGE (27315) 232H477	B	EA	1					D4	25
X20 00017		PLATE, IDENTIFICATION: RANGE SWITCH (27315) 232F217	A	EA	1					D3	63
X20 00018		PLATE, IDENTIFICATION: RANGE SWITCH (27315) 232F290	B	EA	1					D4	21
X20 00019		PLATE, IDENTIFICATION: REMOTE CONTACTOR CONTROL (27315) 232H331	A	EA	1					D3	12
X20 00020		PLATE, IDENTIFICATION: REMOTE RHEOSTAT (27315) 232H96	A	EA	1					D8	2
X20 00021		PLATE, IDENTIFICATION: SELECTOR SWITCH (27315) 232F109	A	EA	1					D3	56
X20 00022		PLATE, IDENTIFICATION: SELECTOR SWITCH (27315) 232F288	B	EA	1					D4	17
X20 00023		PLATE, IDENTIFICATION: TIMED WELD (27315) 232H332	A	EA	1					D3	7

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 15-DAY ORGANIZATIONAL MAINTENANCE ALW				(7) ILLUS-TRATION	
						(a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100	(a) FIG. NO.	(b) ITEM NO.
X20 00024		PLATE, IDENTIFICATION: TIMED WELD (27315) 232F291	B	EA	1					D9	12
X20 00025		PLATE, IDENTIFICATION: WELDING CONTROLS (27315) 232E107	A	EA	1					D3	66
X20 00026		PLATE, IDENTIFICATION: WELDING CONTROLS (27315) 232E142	B	EA	1					D4	22
X20 00027		PLATE, INSTRUCTION: CALIBRATION (27315) 232H318	A	EA	1					D3	16
X20 00029		PLATE, INSTRUCTION: CALIBRATION (27315) 232H474	B	EA	1					D4	2
X20 00030		PLATE, INSTRUCTION: OPERATION (27315) 232H359	A	EA	1					D3	64
X20 00031		PLATE, INSTRUCTION: OPERATION (27315) 232H476	B	EA	1					D4	20
X20 00032		PLATE, INSTRUCTION: SCHEMATIC DIAGRAM (27315) 232H376	A	EA	1					D3	61
X20 00033		PLATE, INSTRUCTION: WIRING DIAGRAM (27315) 232H375	A	EA	1						
O 00034	5320-582-3304	RIVET, BLIND, SELF-PLUGGING SHANK, UNIVERSAL HEAD: IDENTIFICATION AND INSTRUCTION PLATE, ALUMINUM, 1/8 IN. DIA, 0.232 IN. LG (96906) MS20600AD4-2		EA	64					D3	1
O 00035	5320-582-3304	RIVET, BLIND, SELF-PLUGGING SHANK, UNIVERSAL HEAD: IDENTIFICATION AND INSTRUCTION PLATE, ALUMINUM, 1/8 IN. DIA, 0.232 IN. LG (96906) MS20600AD4-2	B	EA	14					D9	10
X20 00036	5305-014-5367	SCREW, TAPPING, THREAD FORMING: IDENTIFICATION PLATE MTG (27315) 20Z4007	A	EA	2					D8	1
00037		GROUP 44 - WELDING									
00038		4405 - FRAME SUPPORT, HOUSING, CARRIER, ETC									
X20 00042		BAFFLE: CONTACTOR (27315) 227H49		EA	1					D10	17
X20 00043		BAFFLE, FRONT (27315) 227F200		EA	1					D10	18
P O 00050	5340-559-8846	CLAMP, LOOP (09922) HP11N		EA	2	*	*	*	*	D1	35
X20 00051		COVER, TOP: WELDER (27315) 214E49		EA	1					D1	4
P O 00052	5325-012-4374	GROMMET, PLASTIC: RECTIFIER BAFFLE (27315) 287Z31D15		EA	1	*	*	*	2	D1	6
P O 00053	5325-012-4376	GROMMET, PLASTIC: RECTIFIER BAFFLE (27315) 287Z31D16		EA	1	*	*	*	2	D1	5
O 00062	5310-013-4530	NUT, PLAIN, HEXAGON: CABLE CLAMP MTG SCREW, CADMIUM OR ZINC PLATED, No. 6-32 THD SIZE (96906) MS35649-62		EA	2					D1	38

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 15-DAY ORGANIZATIONAL MAINTENANCE ALW				(7) ILLUS-TRATION	
						(a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100	(a) FIG. NO.	(b) ITEM NO.
0 00071	5310-274-8893	NUT, SELF-LOCKING HEXAGON: SIDE RAIL, RELAY PANEL, CONTROL TRANSFORMER AND FAN MTG SCREW, CADMIUM OR ZINC PLATED, 1/4 x 20 THD SIZE (72962) 21CU040		EA	26					D1	33
0 00071		NUT, SHEET SPRING: BAFFLE MTG (78553) C917-1024	A	EA	10					D10	32
0 00072		NUT, SHEET SPRING: BOTTOM REAR SHROUD MTG (78553) C917-1024		EA	14					D1	25
0 00074	5310-202-8545	NUT, SHEET SPRING: CONTACTOR SUPPORT MTG SCREW (78553) C700-1420-4		EA	4					D10	11
0 00075		NUT, SHEET SPRING: REAR SUPPORT (78553) C7343-1420	B	EA	10					D10	32
0 00076	5310-202-8549	NUT, SHEET SPRING: SHROUD AND PANEL MTG SCREW (78553) C1793-1024		EA	35					D1	3
0 00077	5310-202-8548	NUT, SHEET SPRING: TOP REAR SHROUD MTG (78553) C1881-1024		EA	5					D1	34
P20 00078	5340-956-0098	PLUG, PROTECTIVE: DUST AND MOISTURE SEAL (99017) BP13-4		EA	2	*	*	*	*	D1	9
0 00080	5305-042-0479	SCREW, ASSEMBLED WASHER: BAFFLE MOUNTING (08285) MSS5305-9	A	EA	10					D10	33
0 00081	5305-042-0479	SCREW, ASSEMBLED WASHER: SHROUD AND PANEL MTG, CADMIUM OR ZINC PLATED, No. 10-24 THD SIZE, 5/8 IN. LG (08285) MSS5305-9		EA	54					D1	1
0 00084	5305-261-1820	SCREW, CAP, HEXAGON HEAD: CONTACTOR SUPPORT MTG (96906) MS35289-5	A	EA	4					D10	10
0 00085	5305-261-1822	SCREW, CAP, HEXAGON HEAD: CONTACTOR SUPPORT MTG (96906) MS35289-6	B	EA	4					D10	10
0 00087	5305-012-1887	SCREW, CAP, HEXAGON: REAR SUPPORT (96906) MS35291-6	B	EA	10					D10	33
0 00090	5305-043-6666	SCREW, MACHINE: CABLE CLAMP MTG, (96906) MS35225-31		EA	2					D1	36
0 00091	5305-558-3676	SCREW, MACHINE: SIDE RAIL, RELAY PANEL, CONTROL TRANSFORMER AND FAN MTG, CADMIUM OR ZINC CHROMATE (96906) MS35225-80		EA	26					D1	32
X20 00092		SHROUD, REAR: BOTTOM (27315) 227F95		EA	1					D1	31
X20 00093		SHROUD, REAR: TOP (27315) 227E16703		EA	1					D1	2
X20 00094		SHROUD, SIDE: LEFT HAND (27315) 227E217		EA	1					D1	40
X20 00095		SHROUD, SIDE: RIGHT HAND (27315) 227E116		EA	1					D1	8
X20 00096		SUPPORT, BAFFLE (27315) 227H15		EA	2					D10	16
X20 00098		SUPPORT, CONTACTOR (27315) 216F417	B	EA	1					D10	9
0 00102		WASHER, FLAT: REAR SUPPORT AND CONTACOTR SUPPORT MTG (96906) MS15795-211		EA	14					D10	34

(1)	(2)	(3)		(4)	(5)	(6)				(7)	
SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	UNIT OF MEAS	QTY INC IN UNIT	15-DAY ORGANIZATIONAL MAINTENANCE ALW				ILLUSTRATION	
						(a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100	(a) FIG. NO.	(b) ITEM NO.
0 00104	5310-596-7674	WASHER, LOCK: CABLE CLAMP MTG SCREW, CADMIUM OR ZINC CHRONATE, 0.141 IN. ID, 0.239 IN. OD, 0.025 IN. THK (96906) MS35338-22		EA	2					D1	37
0 00111	5310-011-5543	WASHER, LOCK: RECEPTACLE MTG, 0.145 IN. ID, 0.285 IN. OD, 0.019 IN. THK (96906) MS35333-3		EA	8					D3	68
00112		4406 - VENTILATING, COOLING SYSTEM									
X20 00113		FAN, AXIAL: COOLING (27315) 9227H11		EA	1					D2	
X20 00114		CLIP: FAN MOTOR MTG (27315) 232H302D1		EA	8					D2	3
X20 00115		IMPELLER, FAN, AXIAL (39595) X7600		EA	1					D2	9
P20 00116	6105-761-8702	MOTOR, ALTERNATING CURRENT: COOLING FAN (27315) 288Z15		EA	1	*	*	*	*	D2	6
0 00117	5305-527-4195	NUT, PLAIN, HEXAGON: FAN SUPPORT MTG SCREW		EA	2					D2	8
0 00118	5310-811-3494	NUT, SELF-LOCKING, HEXAGON: FAN MOTOR MTG, CADMIUM PLATED, No. 10-32 THD SIZE (72962) 22NM82		EA	4					D2	2
0 00120	5305-558-3676	SCREW, MACHINE: FAN SUPPORT MTG		EA	2					D2	7
X20 00121		SPACER, SLEEVE: FAN MOTOR MTG (27315) 18P926D8		EA	4					D2	5
X20 00122		SUPPORT, FAN (27315) 227U1		EA	1					D2	4
00123		4407 - CONTROL PANELS, HOUSING									
P20 00124	6625-012-4464	AMMETER: ALTERNATING CURRENT (03516) 612X54	A	EA	1	*	*	*	*	D3	69
P20 00125	6625-012-4465	AMMETER: DIRECT CURRENT (03516) 514X26	A	EA	1	*	*	*	*	D3	71
X20 00128	5935-557-1116	CAP, PLUG: WATER AND GAS CONNECTION (99017) 6X		EA	4					D3	41
X20 00129		DOOR ASSEMBLY, TERMINAL (27315) 279H25502		EA	1					D3	58
X20 00130	5340-266-0759	BUMPER, RUBBER (70485) 829		EA	2						
X1 00131		DOOR, TERMINAL (27315) 279F160		EA	1						
0 00132	4730-277-5553	ELBOW, PIPE: SOLENOID VALVE, BRASS OR BRONZE, ONE END MALE, OTHER END FEMALE, 1/4-18 THD SIZE (70411) 616L		EA	4					D3	43
X20 00133		FILTER ASSEMBLY, WATER (27315) 216H821	B	EA	1					D4	8
X20 00134		FILTER: WATER (80721) 86002	B	EA	1					D4	10
X20 00135		NIPPLE, PIPE (27315) 2419V038	B	EA	1					D4	9

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 15-DAY ORGANIZATIONAL MAINTENANCE ALW				(7) ILLUSTRATION	
						(a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100	(a) FIG. NO.	(b) ITEM NO.
X20 00136		REDUCER, PIPE: WATER CONNECTION (27315) 244Z2	B	EA	1					D4	11
X20 00137		GROMMET, PLASTIC (27315) 287Z31D13	B	EA	1					D9	2
X20 00138		HANDLE, SWITCH: RANGE AND SELECTOR (27315) 206F3D4		EA	2					D3	60
0 00370	5315-619-0212	PIN, SPRING: HANDLE MTG, RANGE AND SELECTOR SWITCH (72962) 59-040-187-1000		EA	2					D3	59
X20 00371		REDUCER, PIPE: GAS CONNECTION (27315) 244Z3		EA	2					D3	42
X20 00372		REDUCER, PIPE: WATER CONNECTION (27315) 244Z2		EA	2					D3	45
0 00375	5305-043-6663	SCREW, MACHINE: RECEPTACLE MTG, CADMIUM OR ZINC CHROMATE, 6-32 THD SIZE, 3/8 IN. LG (96906) MS35225-28		EA	8					D3	9
P20 00377	6625-012-4470	VOLTMETER: ALTERNATING CURRENT (03516) 612X80	A	EA	1	*	*	*	*	D3	70
P20 00378	6625-012-4471	VOLTMETER: DIRECT CURRENT (03516) 518X10		EA	1	*	*	*	*	D3	72
00379		4408 - CONNECTING DEVICES									
X20 00380	5940-012-4427	BOARD, TERMINAL: GROUND AND ELECTRODE, CONTROL PANEL (27315) 9279H21-5		EA	1					D3	
X1 00381		BOARD, TERMINAL (27315) 279H230		EA	1					D3	47
0 00382	5310-202-8552	NUT, PLAIN, HEXAGON: TERMINAL SCREW (96906) MS35690-802		EA	2					D3	46
0 00383	5310-655-9662	NUT, PLAIN, HEXAGON: TERMINAL SCREW (96906) MS35691-802		EA	2					D3	75
0 00384	5305-543-4891	SCREW, CAP, HEXAGON HEAD: TERMINAL (96906) MS35291-114		EA	2					D3	48
X20 00395		CABLE ASSEMBLY (27315) 9279F243D13	B	EA	1					D4	15
X20 00396		CABLE ASSEMBLY (27315) 9279F243D14	B	EA	1					D4	14
P20 00397	5935-187-0727	CONNECTOR PLUG, ELECTRICAL: CONTACTOR CONTROL (74545) 7484	A	EA	1	*	*	*	*	D3	13
P20 00398	5935-187-0727	CONNECTOR, PLUG, ELECTRICAL: CONTACTOR CONTROL (74545) 7484	B	EA	1	*	*	*	*	D9	8
P20 00399	5935-149-4181	CONNECTOR, PLUG, ELECTRICAL: OUTPUT SIGNAL (81348) WC596STYLEC21		EA	1	*	*	*	*	D3	8
P20 00400	5935-149-4181	CONNECTOR, PLUG, ELECTRICAL: OUTPUT SIGNAL (81348) WC596STYLEC21	B	EA	1	*	*	*	*	D9	7
P20 00401	5935-891-2671	CONNECTOR, PLUG, ELECTRICAL: REMOTE CONTACTOR CONTROL (81348) WC596STYLEN21	A	EA	1	*	*	*	*	D3	74

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 15-DAY ORGANIZATIONAL MAINTENANCE ALW (a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100	(7) ILLUSTRATION (a) FIG. NO.	(b) ITEM NO.
P20 00402	5935-892-9806	CONNECTOR, PLUG, ELECTRICAL: WELD TIMER CINCH JONES (71785) P1-2412SB	B	EA	1	*	*	*	*	D9	3
P20 00403	5935-012-4416	CONNECTOR, RECEPTACLE, ELECTRICAL: AXILLARY AC POWER (81091) 5242T		EA	1	*	*	*	*	D3	40
P20 00404	5935-201-3545	CONNECTOR, RECEPTACLE, ELECTRICAL: CONTACTOR CONTROL (74545) 287Z44	A	EA	1	*	*	*	*	D3	14
P20 00405	5935-201-3545	CONNECTOR, RECEPTACLE, ELECTRICAL: CONTACTOR CONTROL (74545) 287Z44	B	EA	1	*	*	*	*	09	9
P20 00406	5935-178-8077	CONNECTOR, RECEPTACLE, ELECTRICAL: OUTPUT SIGNAL (74545) 287Z32		EA	1	*	*	*	*	D3	10
P20 00407	5935-178-8077	CONNECTOR, RECEPTACLE, ELECTRICAL: OUTPUT SIGNAL (74545) 287Z32	B	EA	1	*	*	*	*	D9	6
P20 00408	5935-893-0736	CONNECTOR, RECEPTACLE, ELECTRICAL: REMOTE CONTACTOR CONTROL (77166) 7250GT		EA	1	*	*	*	*	03	25
P20 00409	5935-017-9590	CONNECTOR, RECEPTACLE, ELECTRICAL: REMOTE OUTPUT CONTROL (77166) 7410GT		EA	1	*	*	*	*	D3	24
P20 00410	5935-892-9814	CONNECTOR, RECEPTACLE, ELECTRICAL: WELD TIMER (71785) S1-2412CCT	B	EA	1	*	*	*	*	D4	23
P20 00414	5935-581-4099	CONNECTOR, PLUG, ELECTRICAL (81348) WC596P22	B	EA	1	*	*	*	*	D6	2
P20 00415	5935-891-2671	CONNECTOR, PLUG, ELECTRICAL (81348) WC596STYLEN21	B	EA	1	*	*	*	*	D6	4
0 00488	5310-012-0622	NUT, PLAIN, HEXAGON: AXILLARY AC POWER RECEPTACLE MTG, CADMIUM OR ZINC CHROMATE, No. 8-32 THD SIZE (96906) MS35649-82		EA	2					D3	39
0 00489	5310-543-4971	NUT, PLAIN, HEXAGON: INPUT GROUND STUD, BRASS (96906) MS35690-411		EA	2					D1	27
0 00490	5310-013-4530	NUT, PLAIN, HEXAGON: RECEPTACLE MOUNTING (96906) MS35649-62	A	EA	4					D3	22
0 00491	5310-550-0777	NUT, PLAIN, HEXAGON: TERMINAL BOARD MTG SCREW (96906) MS35690-402		EA	2					D3	49
0 00492	5305-550-3934	SCREW, CAP, HEXAGON HEAD: INPUT GROUND STUD, BRASS, 1/4-20 THD SIZE (96906) MS35309-8		EA	1					D1	19
0 00493	5305-531-1783	SCREW, CAP, HEXAGON HEAD: TERMINAL BOARD MTG, CADMIUM OR ZINC CHROMATE, 1/4-20 THD SIZE, 1 IN. LG (96906) MS35291-8		EA	2					D3	51
0 00494	5305-043-6693	SCREW, MACHINE: AXILLARY AC POWER RECEPTACLE AND SOLENOID VALVE MTG, CADMIUM OR ZINC CHROMATE, No. 8-32 THD SIZE, 3/8 IN. LG (96906) MS35225-43		EA	6					D3	53
P 0 00501	5935-891-2671	CONNECTOR, PLUG, ELECTRICAL: SWITCH CABLE (81348) WC596STYLE	A	EA	1	*	*	*	2	D5	1

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 15-DAY ORGANIZATIONAL MAINTENANCE ALW				(7) ILLUSTRATION	
						(a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100	(a) FIG. NO.	(b) ITEM NO.
0 00505	5310-013-1498	NUT, PLAIN, CAP: SWITCH COVER MTG STUD, CADMIUM OR ZINC PLATED, No. 10-32 THD SIZE (27315) 20261605	A	EA	2					D5	4
0 00511		STUD, PLAIN: SWITCH COVER MOUNTING (97918) 3-475M	A	EA	1					D5	6
0 00513	5310-043-2226	WASHER, LOCK: SWITCH COVER MTG STUD, CADMIUM OR ZINC PLATED, 0.194 IN. ID, 0.337 IN. OD, 0.047 IN. THK (96906) MS35338-24	A	EA	2					D5	5
0 00517	5940-050-6221	TERMINAL, LUG: INPUT GROUND STUD, COPPER, TINNED, No. 6 AWG FOR 1/4 IN. BOLT SIZE (59730) E71		EA	1					D1	28
0 00523	5310-209-5309	WASHER, LOCK: AXILLARY AC POWER RECEPTACLE AND SOLENOID VALVE MTG, CADMIUM OR ZINC CHROMATE, 0.168 IN. ID, 0.296 IN. OD, 0.40 IN. THK (96906) MS35338-23		EA	6					D3	52
0 00524	5310-017-4916	WASHER, LOCK: INPUT GROUND STUD, CADMIUM OR ZINC PLATED, 0.262 IN. ID, 0.036 IN. THK (78189) 4014-22-00		EA	1					D1	26
0 00525	5310-011-5547	WASHER, LOCK: INPUT GROUND STUD, 0.262 IN. ID, 0.469 IN. OD, 0.025 IN. THK (96906) MS35333-6	A	EA	1					D1	20
0 00526	5310-596-7674	WASHER, LOCK: RECEPTACLE MTG (96906) MS35338-22	A	EA	4					D3	21
00527		4409 - PROTECTIVE DEVICES, ELECTRICAL									
X20 00528	5920-280-3763	ADAPTER, FUSE (08288) MS55920-02		EA	1					D3	54
X20 00529	5920-221-5689	FUSEHOLDER: CONTROL PANEL (08288) MS55920-02		EA	1					D3	38
P 0 00530	5920-280-9312	FUSE, PLUG: CONTROL PANEL (71400) S5-6-10		EA	1	*	*	*	2	D3	55
0 00531	5310-012-0614	NUT, PLAIN, HEXAGON: THERMOSTATIC SWITCH MTG SCREW (96906) MS35650-102		EA	3					D12	55
0 00532	5305-043-6750	SCREW, MACHINE: THERMOSTATIC SWITCH MTG (96906) MS35226-63		EA	3					D12	49
X20 00533		SWITCH ASSEMBLY, THERMOSTATIC: POWER RECTIFIER BASE (27315) 9279F291-1		EA	1					D12	
X1 00534		BASE: THERMOSTATIC SWITCH (27315) 279H413		EA	1					D12	59
X1 00535		BRACKET: SWITCH (27315) 279H195		EA	1					D12	58
0 00542	5310-012-0622	NUT, PLAIN, HEXAGON: BASE AND SUPPORT MTG SCREW (96906) MS35649-82		EA	2					D12	63

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 15-DAY ORGANIZATIONAL MAINTENANCE ALW (a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100	(7) ILLUSTRATION (a) FIG. NO.	(b) ITEM NO.
0 00543	5305-043-6693	SCREW, MACHINE: BASE AND SUPPORT MTG (96906) MS35225-43		EA	2					D12	56
X1 00544		SUPPORT, THERMOSTATIC SWITCH (27315) 279H414		EA	1					D12	61
P20 00545	5930-012-4409	SWITCH, THERMOSTATIC (27315) 279Z9101		EA	1	*	*	*	*	012	60
0 00546	5310-209-5309	WASHER, LOCK: BASE AND SUPPORT MTG SCEW (96906) MS35338-23		EA	2					012	62
X20 00547		SWITCH ASSEMBLY, THERMOSTATIC: REACTOR COIL (27315) 9279F290-2		EA	1					D12	
X1 00548		BASE: THERMOSTATIC SWITCH (27315) 279H410		EA	1					012	45
X1 00549		BRACKET: SWITCH MTG (27315) 279H412		EA	1					D12	66
0 00553	5310-012-0622	NUT, PLAIN, HEXAGON: TERMINAL, BASE AND SUPPORT MTG SCREW (96906) MS35649-82		EA	4					012	41
0 00554	5305-043-6693	SCREW, MACHINE: TERMINAL, BASE AND SUPPORT MTG (96906) MS35225-43		EA	4					012	48
X1 00555		SUPPORT, THERMOSTATIC SWITCH (27315) 279H409		EA	1					D12	69
P20 00556	5930-012-4407	SWITCH, THERMOSTATIC (27315) 279Z9103		EA	1	*	*	*	*	D12	68
0 00558	5310-209-5309	WASHER, LOCK: TERMINAL, BASE AND SUPPORT MTG SCREW (96906) MS35338-23		EA	4					D12	70
X20 00559		SWITCH ASSEMBLY, THERMOSTATIC: STABILIZING REACTOR (27315) 9279F290-1		EA	1					012	
X1 00560		BASE: THERMOSTATIC SWITCH (27315) 279H410		EA	1					012	67
X1 00561		BRACKET: SWITCH MTG (27315) 279H411		EA	1					012	46
0 00565	5310-012-0622	NUT, PLAIN, HEXAGON: TERMINAL, BASE AND SUPPORT MTG SCREW, CADMIUN OR ZINC PLATED, No. 10-32 THD SIZE (96906) MS35649-82		EA	4					D12	71
0 00566	5305-043-6693	SCREW, MACHINE: TERMINAL, BASE AND SUPPORT MTG, CADMIUM OR ZINC CHROMATE, No. 10-32 THD SIZE, 1/2 IN. LG (96906) MS35225-43		EA	4					D12	64
P 0 00568	5930-012-4403	SWITCH, THERMOSTATIC (27315) 279Z9104		EA	1	*	*	*	*	012	44
0 00570	5310-209-5309	WASHER, LOCK: TERMINAL, BASE AND SUPPORT MTG SCREW (96906) MS35338-23		EA	4					D12	42
0 00571	5310-043-2226	WASHER, LOCK: THERMOSTATIC SWITCH MOUNTING (96906) MS35338-24		EA	3					012	50
0 00572	5310-010-3319	WASHER, LOCK: TERMINAL BOARD MTG SCREW, 0.255 IN. ID, 0.493 IN. OD, 0.062 IN. THK (96906) MS35338-6		EA	2					D3	76

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 15-DAY ORGANIZATIONAL MAINTENANCE ALW (a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100	(7) ILLUS-TRATION (a) FIG. NO.	(b) ITEM NO.
00573		4410 - SWITCHING, TIMING AND SPEED CONTROL									
X20 00574	5945-012-4430	CONTACTOR (04009) 34522U	A	EA	1					D10	14
X20 00575		CONTACTOR (12584) AGO-290650A	B	EA	1					D10	14
0 00578		NUT, SELF-LOCKING, HEXAGON: CONTACTOR MTG (72962) 22NM02		EA	3					D10	8
0 00579	5310-274-8887	NUT, SELF-LOCKING, HEXAGON: TIMER MTG, CADMIUM OR ZINC PLATED, No. 6-32 THD SIZE (72962) 22NM62		EA	8					D3	20
0 00585	5305-021-4602	SCREW, CAP, HEXAGON HEAD: SPARK GAP ASSEMBLY MTG, CADMIUM PLATED, 1/4-28 THD SIZE, 3/4 IN. LG (96906) MS35292-5		EA	2					D12	18
0 00587	5305-043-6752	SCREW, MACHINE: CONTACTOR MTG, CADMIUM OR ZINC CHROMATE, No. 10-32 THD SIZE, 3/4 IN. LG (96906) MS35226-65	A	EA	3					D10	15
0 00588	5305-044-5957	SCREW, MACHINE: RANGE SWITCH AND SELECTOR SWITCH MTG, CADMIUM OR ZINC CHROMATE, 1/4-20 THD SIZE, 3/8 IN. LG (96906) MS35225-77		EA	6					D3	57
0 00590	5305-043-6663	SCREW, MACHINE: TIMER MTG (96906) MS35225-28		EA	8					D3	3
P 0 00591	3431-012-4362	SPARK GAP ASSEMBLY (27315) 9579F81-1		EA	1	*	2	2	2	D12	
X1 00592		INSULATOR, GAP STUD (27315) 579F133		EA	1					D12	12
0 00593	5305-010-0111	SCREW, CAP, HEXAGON HEAD: SPARK GAP TERMINAL ASSEMBLY MTG, 1/4-20 THD SIZE, 1 1/4 IN. LG (96906) MS35289-10		EA	3					D12	8
0 00594	5310-010-3319	WASHER, LOCK: SPARK GAP TERMINAL ASSEMBLY MTG (96906) MS35338-6		EA	3					D12	9
X1 00595		TERMINAL ASSEMBLY, SPARK GAP (27315) 9279H10		EA	2					D12	10
0 00596	5305-543-4251	SCREW, MACHINE: 1/4-28 THD SIZE, 3/8 IN. LG (96906) MS35222-77		EA	2						
0 00597	5310-010-3319	WASHER, LOCK (96906) MS35338-6		EA	2						
X1 00598		TERMINAL ASSEMBLY, SPARK GAP (27315) 9279H9		EA	1					D12	11
P20 00599	5930-636-4796	SWITCH, PUSHBUTTON: LINE (27191) H2541A	B	EA	1	*	*	*	*	D4	5
P20 00670	5930-012-4410	SWITCH, TOGGLE: HIGH FREQUENCY AND WELDING PROCESS (27191) 7613K4		EA	2	*	*	*	*	D3	28
P20 00671	5930-012-4411	SWITCH, TOGGLE: LINE (27191) 7611K4		EA	1	*	*	*	*	D3	27

(1)	(2)	(3)		(4)	(5)	(6) 15-DAY ORGANIZATIONAL MAINTENANCE ALW				(7) ILLUSTRATION	
SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	UNIT OF MEAS	QTY INC IN UNIT	(a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100	(a) FIG. NO.	(b) ITEM NO.
P20 00672	5930-012-4414	SWITCH, TOGGLE: REMOTE CONTROL AND SOFT START (27191) 7565K8		EA	2	*	*	*	*	D3	26
P20 00673	6645-840-6186	TIMER, INTERVAL: POST-PURGE (30703) H1M	A	EA	1	*	*	*	*	D3	4
P20 00674	6645-840-6186	TIMER, INTERVAL: POST-PURGE AND PRE-PURGE (30703) H1M	B	EA	2	*	*	*	*	D4	3
P20 00675	6645-012-4371	TIMER, INTERVAL: TIMED WELD (30703) H6S		EA	1	*	*	*	*	D3	6
X20 00676		TIMER ASSEMBLY, INTERVAL: TIMED WELD REPAIR KIT (27315) 2100H1531	B	EA	1					D9	
P20 00677	5935-187-0727	CONNECTOR, PLUG, ELECTRICAL: CONTACTOR CONTROL (74545) 7484	B	EA	1	SEE	GRP 4408			D9	8
P20 00678	5935-259-3105	CONNECTOR, PLUG, ELECTRICAL: OUTPUT SIGNAL (74545) 7428	B	EA	1	SEE	GRP 4408			D9	7
P20 00679	5935-892-9806	CONNECTOR, PLUG, ELECTRICAL: WELD TIMER CINCH JONES (71785) P1-2412SB	B	EA	1	SEE	GRP 4408			D9	3
P20 00680	5935-201-3545	CONNECTOR, RECEPTACLE, ELECTRICAL: CONTACTOR CONTROL (74545) 287244	B	EA	1	SEE	GRP 4408			D9	9
P20 00681	5935-178-8077	CONNECTOR, RECEPTACLE, ELECTRICAL: OUTPUT SIGNAL (74545) 287232	B	EA	1	SEE	GRP 4408			D9	6
X20 00682		DOOR: TIME WELD (27315) 214H81	B	EA	1					D9	1
X20 00683		GROMMET, PLASTIC (27315) 287231D13	B	EA	1	SEE	GRP 4407			D9	2
X20 00684		PLATE, IDENTIFICATION: TIMED WELD (27315) 232F291	B	EA	1	SEE	GRP 2210			D9	12
X20 00685	5945-012-4431	RELAY, ARMATURE (77342) AB1339	B	EA	1					D9	4
X20 00686	5945-012-4437	RELAY, ARMATURE (77342) AB1337	B	EA	1					D9	5
0 00687	5320-582-3304	RIVET, BLIND, SELF-PLUGGING SHANK, UNIVERSAL HEAD: IDENTIFICATION AND INSTRUCTION PLATE, ALUMINUM, 1/8 IN. DIA, 0.232 IN. LG (96906) MS20600AD4-2	B	EA	14	SEE	GRP 2210			D9	10
0 00688	5305-988-1724	SCREW, MACHINE: TIMED WELD PANEL MTG (96906) MS35206-280	B	EA	1					D9	13
X20 00689	6645-012-4371	TIMER, INTERVAL: TIMED WELD (30703) H6S	B	EA	.					D9	11
0 00690	5310-543-2705	WASHER, LOCK: TIMED WELD PANEL MTG (96906) MS35338-27	B	EA	1					D9	14
P 0 00691	4810-012-4355	VALVE, SOLENOID: WATER AND GAS CONTROL (05402) 70291-063		EA	2	*	*	*	2	D3	44

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 15-DAY ORGANIZATIONAL MAINTENANCE ALW (a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100	(7) ILLUSTRATION (a) FIG. NO.	(b) ITEM NO.
0 00694	5310-012-0380	WASHER, LOCK: SPARK GAP ASSEMBLY MTG (96906) MS35338-25		EA	2					D12	17
00695		4411 - RESISTOR COMPONENTS									
P20 00723	3431-012-4357	CABLE ASSEMBLY, ELECTRICAL: REMOTE RHEOSTAT (27315) 279F109D26	A	EA	1	*	*	*	*	D8	12
P20 00724	5935-296-8672	CONNECTOR, PLUG, ELECTRICAL: REMOTE RHEOSTAT CABLE (74545) 7411	A	EA	1	*	*	*	*	D8	14
X20 00728		PLATE, IDENTIFICATION: REMOTE RHEOSTAT (27315) 232H96	A	EA	1	SEE	GRP 2210			D8	2
0 00734	5305-011-3231	SCREW, TAPPING, THREAD FORMING: IDENTIFICATION PLATE MTG (27315) 202400?	A	EA	2	SEE	GRP 2210			D8	1
00748		4412 - TRANSFORMER COMPONENTS									
0 00794	5305-021-4602	SCREW, CAP, HEXAGON HEAD: SPARK GAP ASSEMBLY MTG (96906) MS35292-5		EA	2	SEE	GRP 4410			D12	18
P 0 00800	3431-012-4362	SPARK GAP ASSEMBLY (27315) 9579F81-1		EA	1	SEE	GRP 4410			D12	
0 00806	5310-012-0380	WASHER, LOCK: SPARK GAP ASSEMBLY MTG (96906) MS35338-25		EA	2	SEE	GRP 4410			D12	17

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE (a) 1-20	(b) 21-50	(c) 51-100	(7) 30-DAY GS MAINT ALLOWANCE (a) 1-20	(b) 21-50	(c) 51-100	(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUSTRATION (a) FIG. NO.	(b) ITEM NO.
00001		SECTION V - REPAIR PARTS FOR DS, GS MAINTENANCE												
00001A		GROUP 22 - BODY, CHASSIS OR HULL, AND ACCESSORY ITEMS												
00002		2210 - DATA PLATES												
X20 00003		PLATE, IDENTIFICATION: AXILLARY AC POWER (27315) 232H277	A	EA	1								D3	62
X20 00004		PLATE, IDENTIFICATION: AXILLARY AC POWER (27315) 232H473	B	EA	1								D4	18
X2F 00005	9905-807-3712	PLATE, IDENTIFICATION, CORPS OF ENGINEER	A	EA	1									
X20 00006		PLATE, IDENTIFICATION: GAS AND WATER (27315) 232F110	A	EA	1								D3	65
X20 00007		PLATE, IDENTIFICATION: GAS AND WATER (27315) 232F289	B	EA	1								D4	19
X2F 00008		PLATE, IDENTIFICATION: GOVERNMENT (27315) 232H478	B	EA	1								D4	27
X20 00009		PLATE, IDENTIFICATION: GROUND AND ELECTRODE (27315) 232H275	A	EA	1								D3	50
X20 00010		PLATE, IDENTIFICATION: GROUND AND ELECTRODE (27315) 232H475	B	EA	1								D4	16
X20 00011		PLATE, IDENTIFICATION, HARNISCHFEGER CORP (27315) 232E113	A	EA	1								D3	2
X20 00012		PLATE, IDENTIFICATION, HARNISCHFEGER CORP (27315) 232E143	B	EA	1								D4	1
X20 00013		PLATE, IDENTIFICATION: OUTPUT VOLTAGE SIGNAL (27315) 232H334	A	EA	1								D3	11
X20 00014		PLATE, IDENTIFICATION: POST-PURGE (27315) 232H333	A	EA	1								D3	5
X2F 00015		PLATE, IDENTIFICATION: POST-PURGE (27315) 232H475	B	EA	1								D4	4
X20 00016		PLATE, IDENTIFICATION: PRE-PURGE (27315) 232H477	B	EA	1								D4	25
X20 00017		PLATE, IDENTIFICATION: RANGE SWITCH (27315) 232F217	A	EA	1								D3	63
X20 00018		PLATE, IDENTIFICATION: RANGE SWITCH (27315) 232F290	B	EA	1								D4	21
X20 00019		PLATE, IDENTIFICATION: REMOTE CONTACTOR CONTROL (27315) 232H331	A	EA	1								D3	12
X20 00020		PLATE, IDENTIFICATION: REMOTE RHEOSTAT (27315) 232H96	A	EA	1								D8	2
X20 00021		PLATE, IDENTIFICATION: SELECTOR SWITCH (27315) 232F109	A	EA	1								D3	56

(1)	(2)	(3)		(4)	(5)	(6)			(7)			(8)	(9)	
SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	UNIT OF MEAS	QTY INC IN UNIT	30-DAY DS MAINT ALLOWANCE			30-DAY GS MAINT ALLOWANCE			1-YR ALW PER 100 EQUIP CNTGY	ILLUS-TRATION	
						(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100		(a) FIG. NO.	(b) ITEM NO.
X20 00022		PLATE, IDENTIFICATION: SELECTOR SWITCH (27315) 232F288	B	EA	1								D4	17
X20 00023		PLATE, IDENTIFICATION: TIMED WELD (27315) 232H332	A	EA	1								D3	7
X20 00024		PLATE, IDENTIFICATION: TIMED WELD (27315) 232F291	B	EA	1								D9	12
X20 00025		PLATE, IDENTIFICATION: WELDING CONTROLS (27315) 232E107	A	EA	1								D3	66
X20 00026		PLATE, IDENTIFICATION: WELDING CONTROLS (27315) 232E142	B	EA	1								D4	22
X20 00027		PLATE, INSTRUCTION: CALIBRATION (27315) 232H318	A	EA	1								D3	16
X2F 00028		PLATE, INSTRUCTION: CALIBRATION (27315) 232H95	A	EA	1								D8	15
X20 00029		PLATE, INSTRUCTION: CALIBRATION (27315) 232H474	B	EA	1								D4	2
X20 00030		PLATE, INSTRUCTION: OPERATION (27315) 232H359	A	EA	1								D3	64
X20 00031		PLATE, INSTRUCTION: OPERATION (27315) 232H476	B	EA	1								D4	20
X20 00032		PLATE, INSTRUCTION: SCHEMATIC DIAGRAM (27315) 232H376	A	EA	1								D3	61
X20 00033		PLATE, INSTRUCTION: WIRING DIAGRAM (27315) 232H375	A	EA	1									
0 00034	5320-582-3304	RIVET, BLIND, SELF-PLUGGING SHANK, UNIVERSAL HEAD: IDENTIFICATION AND INSTRUCTION PLATE, ALUMINUM, 1/8 IN. DIA, 0.232 IN. LG (96906) MS20600AD4-2		EA	64								D3	1
0 00035	5320-582-3304	RIVET, BLIND, SELF-PLUGGING SHANK, UNIVERSAL HEAD: IDENTIFICATION AND INSTRUCTION PLATE, ALUMINUM, 1/8 IN. DIA, 0.232 IN. LG (96906) MS20600AD4-2	B	EA	14								D9	10
X20 00036	5305-014-5367	SCREW, TAPPING, THREAD FORMING: IDENTIFICATION PLATE MTG (27315) 2024007	A	EA	2								D8	1
00037		GROUP 44 - WELDING												
00038		4405 - FRAME SUPPORT, HOUSING, CARRIER, ETC												
X2F 00039		ANGLE, MOUNTING: MAIN TRANSFORMER, LEFT HAND (27315) 216E4801	A	EA	1								D11	40
X2F 00040		ANGLE, MOUNTING: MAIN TRANSFORMER, RIGHT HAND (27315) 216E4802	A	EA	1								D11	35
X2F 00041		BAFFLE, AIR (27315) 227F282	A	EA	2								D12	26
X20 00042		BAFFLE: CONTACTOR (27315) 227H49		EA	1								D10	17

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUSTRATION	
						(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100		(a) FIG. NO.	(b) ITEM NO.
X20 00043		BAFFLE, FRONT (27315) 227F200		EA	1								D10	18
X2F 00044		BAFFLE: MAIN TRANSFORMER (27315) 227F157		EA	1								D11	7
X2F 00045		BAFFLE: MAIN TRANSFORMER (27315) 227F158		EA	1								D11	31
X2F 00046		BAFFLE: REACTOR COIL (27315) 227H48		EA	1								D10	22
X2F 00047		BAFFLE, RECTIFIER (27315) 227F27203		EA	1								D1	7
X2F 00048		BASE, WELDER (27315) 216E58		EA	1								D1	14
F 00049	5306-225-8497	BOLT, MACHINE: UPRIGHT TO BASE MTG, CADMIUM OR ZINC CHROMATE, 5/16-18 THD SIZE, 3/4 IN. LG (96906) MS90725-32		EA	16								D1	30
P O 00050	5340-559-8846	CLAMP, LOOP (09922) HP11N		EA	2	*	*	2	*	*	2	6	D1	35
X20 00051		COVER, TOP: WELDER (27315) 214E49		EA	1								D1	4
P O 00052	5325-012-4374	GROMMET, PLASTIC: RECTIFIER BAFFLE (27315) 287Z31D15		EA	1	*	2	2	*	2	2	12	D1	6
P O 00053	5325-012-4376	GROMMET, PLASTIC: RECTIFIER BAFFLE (27315) 287Z31D16		EA	1	*	2	2	*	2	2	12	D1	5
X2F 00054		HOLD-DOWN ASSEMBLY, CABLE (27315) 9275H3		EA	1								D1	39
X2F 00055		INSULATOR, PLATE: CABLE STRAP, LOWER (27315) 275H6702		EA	1								D1	21
X2F 00056		INSULATOR, PLATE: CABLE STRAP, UPPER (27315) 275H6701		EA	1								D1	22
F 00057	5310-550-0777	NUT, PLAIN, HEXAGON: CABLE HOLD-DOWN MTG SCREW, CADMIUM OR ZINC CHROMATE, 1/4-20 THD SIZE (96906) MS35690-402		EA	1								D1	24
F 00058	5305-071-2239	SCREW, CAP, HEXAGON HEAD: CABLE HOLD-DOWN MTG, CADMIUM OR ZINC CHROMATE, 1/4-20 THD SIZE (96906) MS35291-12		EA	1								D1	15
X2F 00059		STRAP, CABLE (27315) 532H253		EA	1								D1	23
F 00060	5310-527-3289	WASHER, LOCK: CABLE HOLD-DOWN MTG, SCREW, ZINC CHROMATE, 0.262 IN. ID, 0.469 IN. OD, 0.025 IN. THK (96906) MS35333-23		EA	2								D1	16
F 00061	5310-202-8552	NUT, PLAIN, HEXAGON: ANGLE TO BASE MTG SCREW, CADMIUM OR ZINC PLATED, 1/2-13 THD SIZE (96906) MS35690-802		EA	4								D11	38
O 00062	5310-013-4530	NUT, PLAIN, HEXAGON: CABLE CLAMP MTG SCREW, CADMIUM OR ZINC PLATED, No. 6-32 THD SIZE (96906) MS35649-62		EA	2								D1	38
F 00063	5310-761-6882	NUT, PLAIN, HEXAGON: CONDENSER SUPPORT MTG (96906) MS51967-2	B	EA	2								D11	41

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUS-TRATION	
						(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100		(a) FIG. NO.	(b) ITEM NO.
F 00064	5310-550-0777	NUT, PLAIN, HEXAGON: HIGH FREQUENCY ASSEMBLY MTG (96906) MS35690-402		EA	4								D12	39
F 00065	5310-202-8552	NUT, PLAIN, HEXAGON: REACTOR AND TRANSFORMER SUPPORT MTG (96906) MS35690-802		EA	6								D10	21
F 00066	5310-202-8552	NUT, PLAIN, HEXAGON: REACTOR AND TRANSFORMER SUPPORT MTG (96906) MS35690-802		EA	6								D11	32
F 00067	5310-550-0777	NUT, PLAIN, HEXAGON: RECTIFIER BAFFLE MTG (96906) MS35690-402		EA	7								D1	29
F 00068	5310-550-0777	NUT, PLAIN, HEXAGON: RECTIFIER BAFFLE AND SUPPORT MTG (96906) MS35690-402		EA	7								D12	28
F 00069	5310-543-2629	NUT, PLAIN, HEXAGON: UPRIGHT TO BASE MTG SCREW, CADMIUM OR ZINC CHROMATE, 5/16-18 THD SIZE (96906) MS35690-502		EA	16								D1	17
0 00070	5310-274-8893	NUT, SELF-LOCKING HEXAGON: SIDE RAIL, RELAY PANEL, CONTROL TRANSFORMER AND FAN MTG SCREW, CADMIUM OR ZINC PLATED, 1/4 x 20 THD SIZE (72962) 21CU040		EA	26								D1	33
0 00071		NUT, SHEET SPRING: BAFFLE MTG (78553) C917-1024	A	EA	10								D10	32
0 00072		NUT, SHEET SPRING: BOTTOM REAR SHROUD MTG (78553) C917-1024		EA	14								01	25
F 00073	5310-202-8547	NUT, SHEET SPRING: CONDENSER SUPPORT MTG (78553) C7343-1420-4	A	EA	2								D11	41
0 00074	5310-202-8545	NUT, SHEET SPRING: CONTACTOR SUPPORT MTG SCREW (78553) C700-1420-4		EA	4								D10	11
0 00075		NUT, SHEET SPRING: REAR SUPPORT (78553) C7343-1420	B	EA	10								D10	32
0 00076	5310-202-8549	NUT, SHEET SPRING: SHROUD AND PANEL MTG SCREW (78553) C1793-1024		EA	35								D1	3
0 00077	5310-202-8548	NUT, SHEET SPRING: TOP REAR SHROUD MTG (78553) C1881-1024		EA	5								D1	34
P20 00078	5340-956-0098	PLUG, PROTECTIVE: DUST AND MOISTURE SEAL (99017) BP1-3-4		EA	2	*	*	*	*	*	*	5	D1	9
X2F 00079		RAIL, SIDE: UPRIGHT SUPPORT (27315) 216F195D1		EA	2								D1	11
0 00080	5305-042-0479	SCREW, ASSEMBLED WASHER: BAFFLE MOUNTING (08285) MS55305-9	A	EA	10								D10	33
0 00081	5305-042-0479	SCREW, ASSEMBLED WASHER: SHROUD AND PANEL MTG, CADMIUM OR ZINC PLATED, No. 10-24 THD SIZE, 5/8 IN. LG (08285) MS55305-9		EA	54								D1	1
F 00082	5305-527-4193	SCREW, CAP, HEXAGON HEAD: ANGLE TO BASE MTG, 1/2-13 THD SIZE, 1 1/4 IN. LG (96906) MS35291-111		EA	4								D11	36

(1)	(2)	(3)		(4)	(5)	(6)			(7)			(8)	(9)	
SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	UNIT OF MEAS	QTY INC IN UNIT	30-DAY DS MAINT ALLOWANCE			30-DAY GS MAINT ALLOWANCE			1-YR ALW PER 100 EQUIP CNTGY	ILLUS-TRATION	
						(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100		(a) FIG. NO.	(b) ITEM NO.
F 00083	5305-012-1887	SCREW, CAP, HEXAGON HEAD: CONDENSER SUPPORT MTG, CADMIUM OR ZINC CHROMATE, 1/4-20 THD SIZE, 3/4 IN. LG (96906) MS35291-6		EA	4								D11	5
0 00084	5305-261-1820	SCREW, CAP, HEXAGON HEAD: CONTACTOR SUPPORT MTG (96906) MS35289-5	A	EA	4								D10	10
0 00085	5305-261-1822	SCREW, CAP, HEXAGON HEAD: CONTACTOR SUPPORT MTG (96906) MS35289-6	B	EA	4								D10	10
F 00086	5305-068-0501	SCREW, CAP, HEXAGON HEAD: HIGH FREQUENCY ASSEMBLY MTG, CADMIUM OR ZINC CHROMATE, 1/4-20 THD SIZE, 5/8 IN. LG (96906) MS35291-5		EA	4								D12	7
0 00087	5305-012-1887	SCREW, CAP, HEXAGON: REAR SUPPORT (96906) MS35291-6	B	EA	10								D10	33
F 00088	5305-637-4028	SCREW, CAP, HEXAGON HEAD: RECTIFIER BAFFLE MTG, CADMIUM OR ZINC CHROMATE, 1/4-20 THD SIZE, 1/2 IN. LG (96906) MS35291-3		EA	7								D1	12
F 00089	5305-637-4028	SCREW, CAP, HEXAGON HEAD: RECTIFIER BAFFLE AND SUPPORT MTG, CADMIUM OR ZINC CHROMATE, 1/4-20 THD SIZE, 1/2 IN. LG (96906) MS35291-3		EA	7								D12	52
0 00090	5305-043-6666	SCREW, MACHINE: CABLE CLAMP MTG (96906) MS35225-31		EA	2								D1	36
0 00091	5305-558-3676	SCREW, MACHINE: SIDE RAIL, RELAY PANEL, CONTROL TRANSFORMER AND FAN MTG, CADMIUM OR ZINC CHROMATE (96906) MS35225-80		EA	26								D1	32
X20 00092		SHROUD, REAR: BOTTOM (27315) 227F95		EA	1								D1	31
X20 00093		SHROUD, REAR: TOP (27315) 227E167D3		EA	1								D1	2
X20 00094		SHROUD, SIDE: LEFT HAND (27315) 227E217		EA	1								D1	40
X20 00095		SHROUD, SIDE: RIGHT HAND (27315) 227E116		EA	1								D1	8
X20 00096		SUPPORT, BAFFLE (27315) 227H15		EA	2								D10	16
X2F 00097		SUPPORT, CONDENSER (27315) 216H553		EA	1								D11	4
X20 00098		SUPPORT, CONTACTOR (27315) 216F417	B	EA	1								D10	9
X2F 00099		SUPPORT, RECTIFIER (27315) 216F371		EA	2								D12	36
X2F 00100		UPRIGHT: SHROUD ATTACHING (27315) 216F189D1		EA	4								D1	10
F 00101	5310-209-0709	WASHER, FLAT: CONDENSER SUPPORT MTG, CADMIUM OR ZINC CHROMATE, 0.312 IN. ID, 0.750 IN. OD, 0.065 IN. THK (96906) MS15795-211		EA	4								D11	6
0 00102		WASHER, FLAT: REAR SUPPORT AND CONTACTOR SUPPORT MTG (96906) MS15795-211		EA	14								D10	34

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE (a) 1-20	(b) 21-50	(c) 51-100	(7) 30-DAY GS MAINT ALLOWANCE (a) 1-20	(b) 21-50	(c) 51-100	(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUSTRATION (a) FIG. NO.	(b) ITEM NO.
F 00103	5310-012-0384	WASHER, LOCK: ANGLE TO BASE MTG SCREW, CADMIUM CHROMATE, 0.509 IN. ID, 0.879 IN. OD, 0.125 IN. THK (96906) MS35338-29		EA	4								D11	37
O 00104	5310-596-7674	WASHER, LOCK: CABLE CLAMP MTG SCREW, CADMIUM OR ZINC CHROMATE, 0.141 IN. ID, 0.239 IN. OD, 0.025 IN. THK (96906) MS35338-22		EA	2								D1	37
F 00105	5310-012-0380	WASHER, LOCK: HIGH FREQUENCY ASSEMBLY MTG (96906) MS35338-25		EA	4								D12	40
F 00106	5310-584-5272	WASHER, LOCK: REACTOR AND TRANSFORMER SUPPORT MTG (96906) MS35338-29		EA	6								D10	20
F 00107	5310-584-5272	WASHER, LOCK: REACTOR AND TRANSFORMER SUPPORT MTG (96906) MS35338-29		EA	6								D11	33
F 00108	5310-012-0380	WASHER, LOCK: RECTIFIER BAFFLE MTG SCREW, CADMIUM OR ZINC CHROMATE, 0.255 IN. ID, 0.493 IN. OD, 0.062 IN. THK (96906) MS35338-25		EA	7								D1	13
F 00109	5310-012-0380	WASHER, LOCK: RECTIFIER BAFFLE AND SUPPORT MTG SCREW, CADMIUM OR ZINC CHROMATE, 0.255 IN. ID, 0.493 IN. OD, 0.062 IN. THK (96906) MS35338-25		EA	7								D12	27
F 00110	5310-012-0214	WASHER, LOCK: UPRIGHT TO BASE MTG SCREW, CADMIUM OR ZINC CHROMATE, 0.319 IN. ID, 0.591 IN. OD, 0.078 IN. THK (96906) MS35338-26		EA	16								D1	18
O 00111	5310-011-5543	WASHER, LOCK: RECEPTACLE MTG, 0.145 IN. ID, 0.285 IN. OD, 0.019 IN. THK (96906) MS35333-3		EA	8								D3	68
00112		4406 - VENTILATING, COOLING SYSTEM												
X20 00113		FAN, AXIAL: COOLING (27315) 9227H11		EA	1								D2	
X20 00114		CLIP: FAN MOTOR MTG (27315) 232H30201		EA	8								D2	3
X20 00115		IMPELLER, FAN, AXIAL (39595) X7600		EA	1								D2	9
P20 00116	6105-761-8702	MOTOR, ALTERNATING CURRENT: COOLING FAN (27315) 288Z15		EA	1	*	*	*	*	*	*	3	D2	6
O 00117	5305-527-4195	NUT, PLAIN, HEXAGON: FAN SUPPORT MTG SCREW		EA	2								D2	8
O 00118	5310-811-3494	NUT, SELF-LOCKING, HEXAGON: FAN MOTOR MTG, CADMIUM PLATED, No. 10-32 THD SIZE (72962) 22NM82		EA	4								D2	2
X2F 00119		RESISTOR ASSEMBLY, BALLAST (27315) 9280F6-1		EA	1	SEE GRP 4411							D2	1
O 00120	5305-558-3676	SCREW, MACHINE: FAN SUPPORT MTG		EA	2								D2	7
X20 00121		SPACER, SLEEVE: FAN MOTOR MTG (27315) 18P92608		EA	4								D2	5
X20 00122		SUPPORT, FAN (27315) 227U1		EA	1								D2	4

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE (a) 1-20	(6) (b) 21-50	(6) (c) 51-100	(7) 30-DAY GS MAINT ALLOWANCE (a) 1-20	(7) (b) 21-50	(7) (c) 51-100	(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUSTRATION (a) FIG. NO.	(9) (b) ITEM NO.
00123		4407 - CONTROL PANELS, HOUSING												
P20 00124	6625-012-4464	AMMETER: ALTERNATING CURRENT (03516) 612X54	A	EA	1	*	*	*	*	*	*	5	D3	69
P20 00125	6625-012-4465	AMMETER: DIRECT CURRENT (03516) 514X26	A	EA	1	*	*	*	*	*	*	5	D3	71
X2F 00126		BOARD, TERMINAL: RELAY PANEL (27315) 9279F174		EA	1								D7	28
P F 00127	5910-012-4394	CAPACITOR, FIXED, PAPER DIELECTRIC: TERMINAL BOARD (14655) PJX652		EA	1	*	2	2	*	2	2	20	D7	29
X20 00128	5935-557-1116	CAP, PLUG: WATER AND GAS CONNECTION (99017) 6X		EA	4								D3	41
X20 00129		DOOR ASSEMBLY, TERMINAL (27315) 279H25502		EA	1								D3	58
X20 00130	5340-266-0759	BUMPER, RUBBER (70485) 829		EA	2									
X1 00131		DOOR, TERMINAL (27315) 279F160		EA	1									
0 00132	4730-277-5553	ELBOW, PIPE: SOLENOID VALVE, BRASS OR BRONZE, ONE END MALE, OTHER END FEMALE, 1/4-18 THD SIZE (70411) 616L		EA	4								D3	43
X20 00133		FILTER ASSEMBLY, WATER (27315) 216H821	B	EA	1								D4	8
X20 00134		FILTER: WATER (80721) 86002	B	EA	1								D4	10
X20 00135		NIPPLE, PIPE (27315) 2419V038	B	EA	1								D4	9
X20 00136		REDUCER, PIPE: WATER CONNECTION (27315) 244Z2	B	EA	1								D4	11
X20 00137		GROMMET, PLASTIC (27315) 287Z31D13	B	EA	1								D9	2
X20 00138		HANDLE, SWITCH: RANGE AND SELECTOR (27315) 206F3D4		EA	2								D3	60
X2F 00139		INSULATOR, PLATE: TERMINAL BOARD (27315) 279H385		EA	1								D7	27
M F 00140		LEAD, ELECTRICAL: 3RH-47 TO 2REC-56 (27315) 279F276D4 MANUFACTURE FROM:	A	EA	1									
P F 00141	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (10 IN. REQUIRED)	A	FT		SEE	GRP	9501						
F 00142	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2									
M F 00143		LEAD, ELECTRICAL: S9-49 TO S9-52 (27315) 279F320D7 MANUFACTURE FROM:	A	EA	1									
P F 00144	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (2 IN. REQUIRED)	A	FT		SEE	GRP	9501						
F 00145	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2									

(1)	(2)	(3)		(4)	(5)	(6)			(7)			(8)	(9)	
SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	UNIT OF MEAS	QTY INC IN UNIT	30-DAY DS MAINT ALLOWANCE			30-DAY GS MAINT ALLOWANCE			1-YR ALW PER 100 EQUIP CNTGY	ILLUSTRATION	
						(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100		(a) FIG. NO.	(b) ITEM NO.
M F 00146		LEAD, ELECTRICAL: S9-48 TO J3-54 AND J3-53 TO S9-50 (27315) 279F276D2 MANUFACTURE FROM:	A	EA	2									
P F 00147	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (6 IN. REQUIRED FOR EACH LEAD)	A	FT		SEE	GRP	9501						
F 00148	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	4									
M F 00149		LEAD, ELECTRICAL: 2REC-58 TO S4-82 (27315) 279F276D7 MANUFACTURE FROM:	A	EA	1									
P F 00150	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (16 IN. REQUIRED)	A	FT		SEE	GRP	9501						
F 00151	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2									
M F 00152		LEAD, ELECTRICAL: S9-51 TO S4-83, S5-141 TO S5-143, S5-140 TO S5-138, S7-118 TO S7-120 (27315) 279F276D1 MANUFACTURE FROM:	A	EA	4									
P F 00153	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (4 IN. REQUIRED FOR EACH LEAD)	A	FT		SEE	GRP	9501						
F 00154	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	8									
M F 00155		LEAD, ELECTRICAL: S5-136 TO 1RH-134 (27315) 279F276D3 MANUFACTURE FROM:	A	EA	1									
P F 00156	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (89110) 41274 (8 IN. REQUIRED)	A	FT		SEE	GRP	9501						
F 00157	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2									
M F 00158		LEAD, ELECTRICAL: S1-41 TO M-131, S1-42 TO M-129 (27315) 279F276D123 MANUFACTURE FROM:	A	EA	2									
P F 00159	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (3 FT 6 IN. REQUIRED FOR EACH LEAD)	A	FT		SEE	GRP	9501						
F 00160	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2									
F 00161	5940-518-9382	TERMINAL, LUG (59730) B14-14	A	EA	2									
M F 00162		LEAD, ELECTRICAL: S-143 TO TB1-C4, S1-44 TO TB1-C1 (27315) 279F276D15 MANUFACTURE FROM:	A	EA	2									
P F 00163	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (3 FT 6 IN. REQUIRED FOR EACH LEAD)	A	FT		SEE	GRP	9501						
F 00164	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	4									
M F 00165		LEAD, ELECTRICAL: J3-55 TO 2REC-58 (27315) 279F276D8 MANUFACTURE FROM:	A	EA	1									
P F 00166	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (18 IN. REQUIRED)	A	FT		SEE	GRP	9501						

(1)	(2)	(3)		(4)	(5)	(6)			(7)			(8)	(9)	
SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	UNIT OF MEAS	QTY INC IN UNIT	30-DAY DS MAINT ALLOWANCE			30-DAY GS MAINT ALLOWANCE			1-YR ALW PER 100 EQUIP CNTGY	ILLUSTRATION	
						(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100		(a) FIG. NO.	(b) ITEM NO.
F 00167	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2									
M F 00168		LEAD, ELECTRICAL: F-177 TO J5-94 (27315) 279F276074 MANUFACTURE FROM:	A	EA	1									
P F 00169	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (6 IN. REQUIRED)	A	FT		SEE	GRP	9501						
F 00170	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	1									
X2F 00171		TERMINAL, LUG (89110) 41332	A	EA	1									
M F 00172		LEAD, ELECTRICAL: 1TR-104 TO 6CR-109 (27315) 279F27605 MANUFACTURE FROM:	A	EA	1									
P F 00173	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (12 IN. REQUIRED)	A	FT		SEE	GRP	9501						
F 00174	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2									
M F 00175		LEAD, ELECTRICAL: J1-202 TO TB2-21 (27315) 279F276058 MANUFACTURE FROM:	A	EA	2									
P F 00176	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (10 IN. REQUIRED FOR EACH LEAD)	A	FT		SEE	GRP	9501						
F 00177	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2									
F 00178	5940-050-7095	TERMINAL, LUG (89110) 41330	A	EA	2									
M F 00179		LEAD, ELECTRICAL: 1TR-104 TO TB2-28 (27315) 279F276013 MANUFACTURE FROM:	A	EA	1									
P F 00180	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG	A	FT		SEE	GRP	9501						
F 00181	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2									
M F 00182		LEAD, ELECTRICAL: S5-139 TO TB2-32, 2CR-107 TO 6CR-108, 5CR-103 TO 6CR-99, 4CR-219 TO 2CR-128 (27315) 279F276D2 MANUFACTURE FROM:	A	EA	4									
P F 00183	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (6 IN. REQUIRED FOR EACH LEAD)	A	FT		SEE	GRP	9501						
F 00184	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	8									
M F 00185		LEAD, ELECTRICAL: 3RH-46 TO 4RES-64, S4-175 TO TB2-38, S7-118 TO TB2-37, 2CR-171 TO 6CR-98, 3REC-239 TO TB2-25 (27315) 279F276D1 MANUFACTURE FROM:	A	EA	5									
P F 00186	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (4 IN. REQUIRED FOR EACH LEAD)	A	FT		SEE	GRP	9501						

(1)	(2)	(3)		(4)	(5)	(6)			(7)			(8)	(9)	
SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	UNIT OF MEAS	QTY INC IN UNIT	30-DAY DS MAINT ALLOWANCE			30-DAY GS MAINT ALLOWANCE			1-YR ALW PER 100 EQUIP CNTGY	ILLUSTRATION	
						(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100		(a) FIG. NO.	(b) ITEM NO.
F 00187	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	10									
M F 00188		LEAD, ELECTRICAL: 4RES-64 TO TB2-34, 2REC-59 TO TB2-23, S9-52 TO TB2-23 (27315) 279F276D6 MANUFACTURE FROM:	A	EA	3									
P F 00189	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (14 IN. REQUIRED FOR EACH LEAD)	A	FT		SEE	GRP	9501						
F 00190	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	6									
M F 00191		LEAD, ELECTRICAL: 4RES-65 TO TB2-39, S7-124 TO 2CR-127, S5-141 TO TB2-26, 1RH-133 TO TB2-33, 3REC-241 TO TB2-22, 3REC-242 TO TB2-21 (27315) 279F276D3 MANUFACTURE FROM:	A	EA	6									
P F 00192	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (8 IN. REQUIRED FOR EACH LEAD)	A	FT		SEE	GRP	9501						
F 00193	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	12									
M F 00194		LEAD, ELECTRICAL: 2REC-57 TO 3RH-45, J4-89 TO TB2-38, 2C-160 TO TB2-26, 1TR-105 TO 2CR-106 (27315) 279F276D5 MANUFACTURE FROM:	A	EA	4									
P F 00195	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (12 IN. REQUIRED FOR EACH LEAD)	A	FT		SEE	GRP	9501						
F 00196	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	8									
M F 00197		LEAD, ELECTRICAL: 2REC-56 TO 3RH-47, J4-88 TO TB2-40, 2C-159 TO TB2-25, S7-180 TO TB2-29, 5CR-126 TO 4CR-220 (27315) 279F276D4 MANUFACTURE FROM:	A	EA	5									
P F 00198	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (10 IN. REQUIRED FOR EACH LEAD)	A	FT		SEE	GRP	9501						
F 00199	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	10									
M F 00200		LEAD, ELECTRICAL: S7-119 TO TB2-27, ICR-161 TO TB2-27, ICR-161 TO TB2-21, ICR-162 TO TB2-22, S4-174 TO TB2-30, 3RH-45 TO 4RES-65 (27315) 279F276D7 MANUFACTURE FROM:	A	EA	5									
P F 00201	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (16 IN. REQUIRED FOR EACH LEAD)	A	FT		SEE	GRP	9501						
F 00202	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	10									
M F 00203		LEAD, ELECTRICAL: 1TR-110 TO 1TR-104 (27315) 279F2760181 MANUFACTURE FROM:	A	EA	1									
P F 00204	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (2 IN. REQUIRED)	A	FT		SEE	GRP	9501						

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE (a) 1-20	(6) (b) 21-50	(6) (c) 51-100	(7) 30-DAY GS MAINT ALLOWANCE (a) 1-20	(7) (b) 21-50	(7) (c) 51-100	(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUS-TRATION (a) FIG. NO.	(9) (b) ITEM NO.
F 00205	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2									
M F 00206		LEAD, ELECTRICAL: 2CR-171 TO TB2-29, 5CR-103 TO TB2-28, 2CR-107 TO TB2-37 (27315) 279F276010 MANUFACTURE FROM:	A	EA	3									
P F 00207	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (2 IN. REQUIRED)	A	FT		SEE	GRP	9501						
F 00208	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	6									
M F 00209		LEAD, ELECTRICAL: S5-135 TO 4CR-164 (27315) 279F276012 MANUFACTURE FROM:	A	EA	1									
P F 00210	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (28 IN. REQUIRED)	A	FT		SEE	GRP	9501						
F 00211	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2									
M F 00212		LEAD, ELECTRICAL: J5-95 TO TB2-28 (27315) 279F27608 MANUFACTURE FROM:	A	EA	1									
P F 00213	6145-192-3268	WIRE, ELECTRICAL: No 14 AWG (18 IN. REQUIRED)	A	FT		SEE	GRP	9501						
F 00214	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2									
M F 00215		LEAD, ELECTRICAL: F-176 TO TB2-27 (27315) 279F276082 MANUFACTURE FROM:	A	EA	1									
P F 00216	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (22 IN. REQUIRED)	A	FT		SEE	GRP	9501						
F 00217	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	1									
F 00218	5940-050-7095	TERMINAL, LUG (89110) 41330	A	EA	1									
M F 00219		LEAD, ELECTRICAL: M-96 TO TB2-27 (27315) 279F276070 MANUFACTURE FROM:	A	EA	1									
P F 00220	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (4 FT REQUIRED)	A	FT		SEE	GRP	9501						
F 00221	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	1									
F 00222	5940-050-7095	TERMINAL, LUG (89110) 41330	A	EA	1									
M F 00223		LEAD, ELECTRICAL: TB1-2 TO TB2-32, TB1-1 TO TB2-33 (27315) 279F276016 MANUFACTURE FROM:	A	EA	2									
P F 00224	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (4 FT REQUIRED FOR EACH LEAD)	A	FT		SEE	GRP	9501						
F 00225	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	4									
M F 00226		LEAD, ELECTRICAL: 4CR-163 TO 3T-342 (27315) 279F276027 MANUFACTURE FROM:	A	EA	1									
P F 00227	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (20 IN. REQUIRED)	A	FT		SEE	GRP	9501						

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUS-TRATION	
						(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100		(a) FIG. NO.	(b) ITEM NO.
F 00228	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	1									
M F 00229		LEAD, ELECTRICAL: ICR-113 TO S5-135, ICR-112 TO 5-137, ICR81 TO S4-84, 2CR-170 TO TB2-27 (27315) 279F276D9 MANUFACTURE FROM:	A	EA	4									
P F 00230	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (20 IN. REQUIRED FOR EACH LEAD)	A	FT		SEE	GRP	9501						
F 00231	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	8									
M F 00232		LEAD, ELECTRICAL: 1TR-111 TO TB2-35 (27315) 279F276D14 MANUFACTURE FROM:	A	EA	1									
P F 00234	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (20 IN. REQUIRED FOR EACH LEAD)	A	FT		SEE	GRP	9501						
F 00235	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2									
M F 00236		LEAD, ELECTRICAL: 5CR-86 TO TB2-30 (27315) 279F320D8 MANUFACTURE FROM:	A	EA	1									
P F 00237	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (25 IN. REQUIRED)	A	FT		SEE	GRP	9501						
F 00238	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2									
M F 00239		LEAD, ELECTRICAL: TB2-27 TO TB2-27, TB2-28 TO TB2-28, TB2-38 TO TB2-38, TB2-40 TO TB2-40 (27315) 279F320D7 MANUFACTURE FROM:	A	EA	4									
P F 00240	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (2 IN. REQUIRED FOR EACH LEAD:	A	FT		SEE	GRP	9501						
F 00241	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	8									
M F 00242		LEAD, ELECTRICAL: 3REC-240 TO TB2-26 (27315) 279F320D9 MANUFACTURE FROM:	A	EA	1									
P F 00243	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (3 IN. REQUIRED FOR EACH LEAD)	A	FT		SEE	GRP	9501						
F 00244	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2									
M F 00245		LEAD, ELECTRICAL: 5CR-125 TO S7-123 (27315) 279F320D27 MANUFACTURE FROM:	A	EA	1									
P F 00246	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (30 IN. REQUIRED)	A	FT		SEE	GRP	9501						
F 00247	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2									

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE (a) 1-20	(6) (b) 21-50	(6) (c) 51-100	(7) 30-DAY GS MAINT ALLOWANCE (a) 1-20	(7) (b) 21-50	(7) (c) 51-100	(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUSTRATION (a) FIG. NO.	(9) (b) ITEM NO.
M F 00248		LEAD, ELETRIAL: 5R-102 TO S7-122 (27315) 279F276013 MANUFATURE FROM:	A	EA	1									
P F 00249	6145-192-3268	WIRE, ELETRIAL: No. 14 AWG (32 IN. REQUIRED)	A	FT		SEE	GRP	9501						
F 00250	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2									
M F 00251		LEAD, ELECTRICAL: 2TR-187 TO TB2-29 (27315) 279F320012 MANUFATURE FROM:	A	EA	1									
P F 00252	6145-192-3268	WIRE, ELETRIAL: No. 14 AWG (32 IN. REQUIRED)	A	FT		SEE	GRP	9501						
F 00253	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2									
M F 00254		LEAD, ELETRIAL: 2TR-188 TO 5R-102 (27315) 279F320013 MANUFATURE FROM:	A	EA	1									
P F 00255	6145-192-3268	WIRE, ELETRIAL: No. 14 AWG (14 IN. REQUIRED)	A	FT		SEE	GRP	9501						
F 00256	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2									
M F 00257		LEAD, ELETRIAL: 2TR-183 TO TB2-27 (27315) 279F320014 MANUFACTURE FROM:	A	EA	1									
P F 00258	6145-192-3268	WIRE, ELETRIAL: No. 14 AWG (32 IN. REQUIRED)	A	FT		SEE	GRP	9501						
F 00259	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2									
M F 00260		LEAD, ELETRIAL: 2TR-184 TO 3CR-185 (27315) 279F320015 MANUFACTURE FROM:	A	EA	1									
P F 00261	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (22 IN. REQUIRED)	A	FT		SEE	GRP	9501						
F 00262	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2									
M F 00263		LEAD, ELECTRICAL: 5CR-87 TO TB2-40, 3CR-186 TO S7-121 (27315) 279F320016 MANUFACTURE FROM:	A	EA	2									
P F 00264	6145-192-3268	WIRE, ELECTRIAL: No. 14 AWG (26 IN. REQUIRED)	A	FT		SEE	GRP	9501						
F 00265	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	4									
M F 00266		LEAD, ELECTRICAL: 4R-219 TO TB2-38 (27315) 279F320017 MANUFACTURE FROM:	A	EA	1									
P F 00267	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (24 IN. REQUIRED)	A	FT		SEE	GRP	9501						
F 00268	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2									
M F 00269		LEAD, ELECTRICAL: 4CR-220 TO TB2-40 (27315) 279F320018 MANUFACTURE FROM:	A	EA	1									

(1)	(2)	(3)		(4)	(5)	(6)			(7)			(8)	(9)	
SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	UNIT OF MEAS	QTY INC IN UNIT	30-DAY DS MAINT ALLOWANCE			30-DAY GS MAINT ALLOWANCE			1-YR ALW PER 100 EQUIP CNTGY	ILLUS-TRATION	
						(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100		(a) FIG. NO.	(b) ITEM NO.
P F 00270	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (24 IN. REQUIRED)	A	FT		SEE	GRP	9501						
F 00271	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2									
M F 00272		LEAD, ELECTRICAL: 4CR-197 TO J2-199 (27315) 279F276063 MANUFACTURE FROM:	A	EA	1									
P F 00273	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (20 IN. REQUIRED)	A	FT		SEE	GRP	9501						
F 00274	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	1									
F 00275	5940-050-7095	TERMINAL, LUG (89110) 41330	A	EA	1									
M F 00276		LEAD, ELECTRICAL: 4CR-198 TO J2-200 (27315) 279F276064 MANUFACTURE FROM:	A	EA	1									
P F 00277	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (22 IN. REQUIRED)	A	FT		SEE	GRP	9501						
F 00278	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	1									
F 00279	5940-050-7095	TERMINAL, LUG (89110) 41330	A	EA	1									
M F 00280		LEAD, ELECTRICAL: 3CR-203 TO 1CR-161 (27315) 279F320021 MANUFACTURE FROM:	A	EA	1									
P F 00281	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (8 IN. REQUIRED)	A	FT		SEE	GRP	9501						
F 00282	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2									
M F 00283		LEAD, ELECTRICAL: 3CR-204 TO 1CR-162 (27315) 279F320022 MANUFACTURE FROM:	A	EA	1									
P F 00284	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (8 IN. REQUIRED)	A	FT		SEE	GRP	9501						
F 00285	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2									
M F 00286		LEAD, ELECTRICAL: 2REC-57 TO TB2-39 (27315) 279F27605 MANUFACTURE FROM:	B	EA	1									
P F 00287	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (12 IN. REQUIRED)	B	FT		SEE	GRP	9501						
F 00288	5940-874-9033	TERMINAL, LUG (89110) 41274	B	EA	2									
M F 00289		LEAD, ELECTRICAL: 2CR-128 TO TB2-38, 5CR-87 TO TBL-40 J1-212 TO P2-11, J1-215 TO P2-12 (27315) 279F276010 MANUFACTURE FROM:	B	EA	4									
P F 00290	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (22 IN. REQUIRED)	B	FT		SEE	GRP	9501						
F 00291	5940-874-9033	TERMINAL, LUG (89110) 41274	B	EA	8									

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE (a) 1-20	(6) (b) 21-50	(6) (c) 51-100	(7) 30-DAY GS MAINT ALLOWANCE (a) 1-20	(7) (b) 21-50	(7) (c) 51-100	(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUSTRATION (a) FIG. NO.	(9) (b) ITEM NO.
M F 00292		LEAD, ELECTRICAL: S5-140 TO 3T-3H1 (27315) 279F276098 MANUFACTURE FROM:	B	EA	1									
P F 00293	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (18 IN. REQUIRED)	B	FT		SEE	GRP	9501						
F 00294	5940-874-9033	TERMINAL, LUG (89110) 41274	B	EA	1									
F 00295		TERMINAL, LUG (89110) 41333	B	EA	1									
M F 00296		LEAD, ELECTRICAL: 4CR-179 TO TB2-28, 5CR-125 TO S7-28 5CR-126 TO 1TR-111, J2-55 TO 2REC-58 (27315) 279F27608 MANUFACTURE FROM:	B	EA	4									
P F 00297	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (18 IN. REQUIRED)	B	FT		SEE	GRP	9501						
F 00298	5940-874-9033	TERMINAL, LUG (89110) 41274	B	EA	8									
M F 00299		LEAD, ELECTRICAL: 1CR-80 TO S4-174, 1TT-192 TO 2TT-193, 2TT-194 TO 3TT-195 (27315) 279F27607 MANUFACTURE FROM:	B	EA	3									
P F 00300	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (16 IN. REQUIRED)	B	FT		SEE	GRP	9501						
F 00301	5940-874-9033	TERMINAL, LUG (89110) 41274	B	EA	6									
M F 00302		LEAD, ELECTRICAL: 2CR-107 TO 9CR-108, 2TR-187 TO 5CR-184, J3-53 TO S9-50 (27315) 279F27602 MANUFACTURE FROM:	B	EA	3									
P F 00303	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (6 IN. REQUIRED)	B	FT		SEE	GRP	9501						
F 00304	5940-874-9033	TERMINAL, LUG (89110) 41274	B	EA	6									
M F 00305		LEAD, ELECTRICAL: 2CR-171 TO 9CR-98, S4-175 TO S4-85, S7-118 TO S7-120 (27315) 279F27601 MANUFACTURE FROM:	B	EA	3									
P F 00306	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (4 IN. REQUIRED)	B	FT		SEE	GRP	9501						
F 00307	5940-874-9033	TERMINAL, LUG (89110) 41274	B	EA	6									
M F 00308		LEAD, ELECTRICAL: 2TR-103 TO 9CR-99, TB2-28, 2C-159 TO TB2-25, S8-14 TO M-131, D8-11 TO 10CR-16 (27315) 279F27604 MANUFACTURE FROM:	B	EA	6									
P F 00309	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (10 IN. REQUIRED)	B	FT		SEE	GRP	9501						
F 00310	5940-874-9033	TERMINAL, LUG (89110) 41274	B	EA	12									
M F 00311		LEAD, ELECTRICAL: 9CR-109 TO 1TR-110 (27315) 279F2760181 MANUFACTURE FROM:	B	EA	1									

(1)	(2)	(3)		(4)	(5)	(6)			(7)			(8)	(9)	
SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	UNIT OF MEAS	QTY INC IN UNIT	30-DAY DS MAINT ALLOWANCE			30-DAY GS MAINT ALLOWANCE			1-YR ALW PER 100 EQUIP CNTGY	ILLUS-TRATION	
						(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100		(a) FIG. NO.	(b) ITEM NO.
P F 00312	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG	B	FT		SEE	GRP	9501						
F 00313	5940-874-9033	TERMINAL, LUG (89110) 41274	B	EA	1									
M F 00314		LEAD, ELECTRICAL: 2TR-102 TO S7-122 (27315) 279F276018 MANUFACTURE FROM:	B	EA	1									
P F 00315	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (72 IN. REQUIRED)	B	FT		SEE	GRP	9501						
F 00316	5940-874-9033	TERMINAL, LUG (89110) 41274	B	EA	2									
M F 00317		LEAD, ELECTRICAL: 2TR-186 TO TB2-27, 5CR-185 TO TB2-28, 6CR-201 TO P2-6, 6CR-200 TO P2-5, 3CR-204 TO P2-1, 3CR-205 TO 7TR-206, 7TR-207 TO P2-2, 7TR-208 TO P2-3, 7TR-209 TO P2-4, 6CR-210 TO P2-8, 6CR-211 TO P2-7, 3CR-214 TO P2-12 (27315) 279F276012 MANUFACTURE FROM:	B	EA	12									
P F 00318	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (28 IN. REQUIRED)	B	FT		SEE	GRP	9501						
F 00319	5940-874-9033	TERMINAL, LUG (89110) 41274	B	EA	24									
M F 00320		LEAD, ELECTRICAL: 3CR-213 TO P2-11 (27315) 279F276011 MANUFACTURE FROM:	B	EA	1									
P F 00321	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (24 IN. REQUIRED)	B	FT		SEE	GRP	9501						
F 00322	5940-874-9033	TERMINAL, LUG (89110) 41274	B	EA	2									
M F 00323		LEAD, ELECTRICAL: 6CR-216 TO J2-218 (27315) 279F276063 MANUFACTURE FROM:	B	EA	1									
P F 00324	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (20 IN. REQUIRED)	B	FT		SEE	GRP	9501						
F 00325	5940-874-9033	TERMINAL, LUG (89110) 41274	B	EA	1									
F 00326	5940-050-7095	TERMINAL, LUG (89110) 41330	B	EA	1									
M F 00327		LEAD, ELECTRICAL: 6CR-217 TO J2-219 (27315) 279F276064 MANUFACTURE FROM:	B	EA	1									
P F 00328	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (22 IN. REQUIRED)	B	FT		SEE	GRP	9501						
F 00329	5940-874-9033	TERMINAL, LUG (89110) 41274	B	EA	1									
F 00330	5940-050-7095	TERMINAL, LUG (89110) 41330	B	EA	1									
M F 00331		LEAD, ELECTRICAL: S3-9 TO TB2-26, S3-8 TO TBL-25 (27315) 279F2760133 MANUFACTURE FROM:	B	EA	2									
P F 00332	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (16 IN. REQUIRED)	B	FT		SEE	GRP	9501						

(1)	(2)	(3)		(4)	(5)	(6)			(7)			(8)	(9)	
SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	UNIT OF MEAS	QTY INC IN UNIT	30-DAY DS MAINT ALLOWANCE			30-DAY GS MAINT ALLOWANCE			1-YR ALW PER 100 EQUIP CNTGY	ILLUSTRATION	
						(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100		(a) FIG. NO.	(b) ITEM NO.
M F 00354		LEAD, ELECTRICAL: TB2-21 TO J4-11, TB2-22 TO J4-12 (27315) 279F276058 MANUFACTURE FROM:	B	EA	2									
P F 00355	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (10 IN. REQUIRED)	B	FT		SEE GRP 9501								
F 00356	5940-874-9033	TERMINAL, LUG (89110) 41274	B	EA	2									
F 00357	5940-050-7095	TERMINAL, LUG (89110) 41330	B	EA	2									
M F 00358		LEAD, ELECTRICAL: 4CR-178 TO J4-6 (27315) 279F276032 MANUFACTURE FROM:	B	EA	1									
P F 00359	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (36 IN. REQUIRED)	B	FT		SEE GRP 9501								
F 00360	5940-874-9033	TERMINAL, LUG (89110) 41274	B	EA	1									
M F 00361		LEAD, ELECTRICAL: S1-42 TO M-129 (27315) 279F2760123 MANUFACTURE FROM:	B	EA	1									
P F 00362	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (42 IN. REQUIRED)	B	FT		SEE GRP 9501								
F 00363	5940-874-9033	TERMINAL, LUG (89110) 41274	B	EA	1									
F 00364		TERMINAL, LUG (89110) 34124	B	EA	1									
F 00365	5310-202-8549	NUT, PLAIN, HEXAGON: PANEL MTG SCREW (78553) C1793-10Z4		EA	2								D7	17
F 00366	5310-202-8549	NUT, SHEET SPRING: TERMINAL BOARD MTG (78553) C1793-10Z4		EA	4								D7	15
X2F 00367		PANEL, CONTROL (27315) 279F32101	A	EA	1								D3	73
X2F 00368		PANEL, CONTROL (27315) 279F32704	B	EA	1								D4	13
X2F 00369		PANEL, RELAY (27315) 279E203		EA	1								D7	6
O 00370	5315-619-0212	PIN, SPRING: HANDLE MTG, RANGE AND SELECTOR SWITCH (72962) 59-040-187-1000		EA	2								D3	59
X2O 00371		REDUCER, PIPE: GAS CONNECTION (27315) 244Z3		EA	2								D3	42
X2O 00372		REDUCER, PIPE: WATER CONNECTION (27315) 244Z2		EA	2								D3	45
F 00373	5305-042-0507	SCREW, ASSEMBLED WASHER: TERMINAL BOARD MTG (78189) 1210-61-16		EA	4								D7	30
F 00374	5305-042-0479	SCREW, MACHINE: PANEL MTG (08285) MS35305-9		EA	2								D7	16
O 00375	5305-043-6663	SCREW, MACHINE: RECEPTACLE MTG, CADMIUM OR ZINC CHROMATE, 6-32 THD SIZE, 3/8 IN. LG (96906) MS35225-28		EA	8								D3	9

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUSTRATION	
						(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100		(a) FIG. NO.	(b) ITEM NO.
F 00333	5940-874-9033	TERMINAL, LUG (89110) 41274	B	EA	2									
F 00334	5940-156-1510	TERMINAL, LUG (89110) 34125	B	EA	2									
M F 00335		LEAD, ELECTRICAL: S8-11 TO TB2-27, S1-44 TO TB1-1, S1-43 TO TB1-4 (27315) 279F276D15 MANUFACTURE FROM:	B	EA	3									
P F 00336	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (42 IN. REQUIRED)	B	FT		SEE	GRP	9501						
F 00337	5940-874-9033	TERMINAL, LUG (89110) 41274	B	EA	6									
M F 00338		LEAD, ELECTRICAL: F-177 TO J5-94 (27315) 279F276D74 MANUFACTURE FROM:	B	EA	1									
P F 00339	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (6 IN. REQUIRED)	B	FT		SEE	GRP	9501						
F 00340	5940-874-9033	TERMINAL, LUG (89110) 41274	B	EA	1									
F 00341		TERMINAL, LUG (89110) 41332	B	EA	1									
M F 00342		LEAD, ELECTRICAL: TB2-27 TO J4-1, TB2-27 TO J4-5 (27315) 279F276D30 MANUFACTURE FROM:	B	EA	2									
P F 00343	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (28 IN. REQUIRED)	B	FT		SEE	GRP	9501						
F 00344	5940-874-9033	TERMINAL, LUG (89110) 41274	B	EA	2									
M F 00345		LEAD, ELECTRICAL: TB2-29 TO J4-3, S7-121 TO J4-2, S7-122 TO J4-4 (27315) 279F276D28 MANUFACTURE FROM:	B	EA	3									
P F 00346	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (22 IN. REQUIRED)	B	FT		SEE	GRP	9501						
F 00347	5940-874-9033	TERMINAL, LUG (89110) 41274	B	EA	3									
M F 00348		LEAD, ELECTRICAL: TB2-38 TO J4-7 (27315) 279F276D27 MANUFACTURE FROM:	B	EA	1									
P F 00349	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (20 IN. REQUIRED)	B	FT		SEE	GRP	9501						
F 00350	5940-874-9033	TERMINAL, LUG (89110) 41274	B	EA	1									
M F 00351		LEAD, ELECTRICAL: TB2-40 TO J4-8 (27315) 279F276D30 MANUFACTURE FROM:	B	EA	1									
P F 00352	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (28 IN. REQUIRED)	B	FT		SEE	GRP	9501						
F 00353	5940-874-9033	TERMINAL, LUG (89110) 41274	B	EA	1									

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUS-TRATION	
						(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100		(a) FIG. NO.	(b) ITEM NO.
P20 00400	5935-149-4181	CONNECTOR, PLUG, ELECTRICAL: OUTPUT SIGNAL (81348) WC596STYLEC21	B	EA	1	*	*	*	*	*	*	5	D9	7
P20 00401	5935-891-2671	CONNECTOR, PLUG, ELECTRICAL: REMOTE CONTACTOR CONTROL (81348) WC596STYLEN21	A	EA	1	*	*	*	*	*	*	5	D3	74
P20 00402	5935-892-9806	CONNECTOR, PLUG, ELECTRICAL: WELD TIMER CINCH JONES (71785) P1-2412SB	B	EA	1	*	*	*	*	*	*	5	D9	3
P20 00403	5935-012-4416	CONNECTOR, RECEPTACLE, ELECTRICAL: AXILLARY AC POWER (81091) 5242T		EA	1	*	*	*	*	*	*	5	D3	40
P20 00404	5935-201-3545	CONNECTOR, RECEPTACLE, ELECTRICAL: CONTACTOR CONTROL (74545) 287Z44	A	EA	1	*	*	*	*	*	*	5	D3	14
P20 00405	5935-201-3545	CONNECTOR, RECEPTACLE, ELECTRICAL: CONTACTOR CONTROL (74545) 287Z44	B	EA	1	*	*	*	*	*	*	5	D9	9
P20 00406	5935-178-8077	CONNECTOR, RECEPTACLE, ELECTRICAL: OUTPUT SIGNAL (74545) 287Z32		EA	1	*	*	*	*	*	*	5	D3	10
P20 00407	5935-178-8077	CONNECTOR, RECEPTACLE, ELECTRICAL: OUTPUT SIGNAL (74545) 287Z32	B	EA	1	*	*	*	*	*	*	5	D9	6
P20 00408	5935-893-0736	CONNECTOR, RECEPTACLE, ELECTRICAL: REMOTE CONTACTOR CONTROL (77166) 7250GT		EA	1	*	*	*	*	*	*	5	D3	25
P20 00409	5935-017-9590	CONNECTOR, RECEPTACLE, ELECTRICAL: RCMOTE OUTPUT CONTROL (77166) 7410GT		EA	1	*	*	*	*	*	*	5	D3	24
P20 00410	5935-892-9814	CONNECTOR, RECEPTACLE, ELECTRICAL: WELD TIMER (71785) S1-2412CCT	B	EA	1	*	*	*	*	*	*	5	D4	23
X2F 00411		SWITCH ASSEMBLY, FOOT: WELDER (27315) 2100E186	B	EA	1								D6	1
P2F 00412	3431-851-4665	CABLE ASSEMBLY, ELECTRICAL: FOOT RHEOSTAT (27315) 279F109D31	B	EA	1	*	*	*	*	*	*	5	D6	5
P2F 00413	3431-891-0972	CABLE ASSEMBLY, ELECTRICAL: FOOT SWITCH (27315) 279F119D18	B	EA	1	*	*	*	*	*	*	5	D6	3
P20 00414	5935-581-4099	CONNECTOR, PLUG, ELECTRICAL (81348) WC596P22	B	EA	1	*	*	*	*	*	*	5	D6	2
P20 00415	5935-891-2671	CONNECTOR, PLUG, ELECTRICAL (81348) WC596STYLEN21	B	EA	1	*	*	*	*	*	*	5	D6	4
P2F 00416	5930-892-9545	RHEOSTAT: FOOT (15605) XPH6	B	EA	1	*	*	*	*	*	*	5	D6	6
X2F 00417		SWITCH, SENSITIVE (27315) 279Z151	B	EA	1								D6	7
X2F 00418		HARDWARE, TERMINAL BOARD (27315) 279H388		EA	1									
P2F 00419	5940-012-4429	LINK, TERMINAL CONNECTING (04009) 39601-33		EA	2	*	*	*	*	*	*	5	D11	21
F 00420	5310-803-1833	NUT, PLAIN, HEXAGON: TERMINAL MTG SCREW, BRASS, No. 6-32 THD SIZE (96906) MS35649-65		EA	13								D11	22

(1)	(2)	(3)		(4)	(5)	(6)			(7)			(8)	(9)	
SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	UNIT OF MEAS	QTY INC IN UNIT	30-DAY DS MAINT ALLOWANCE (a) 1-20	(b) 21-50	(c) 51-100	30-DAY GS MAINT ALLOWANCE (a) 1-20	(b) 21-50	(c) 51-100	1-YR ALW PER 100 EQUIP CNTGY	ILLUSTRATION (a) FIG. NO.	(b) ITEM NO.
F 00376	5940-874-9033	TERMINAL, QUICK DISCONNECT: SOLENOID VALVE LEADS (89110) 41274	A	EA	4									
P20 00377	6625-012-4470	VOLTMETER: ALTERNATING CURRENT (03516) 612X80	A	EA	1	*	*	*	*	*	*	5	D3	70
P20 00378	6625-012-4471	VOLTMETER: DIRECT CURRENT (03516) 518X10		EA	1	*	*	*	*	*	*	5	D3	72
00379		4408 - CONNECTING DEVICES												
X20 00380	5940-012-4427	BOARD, TERMINAL: GROUND AND ELECTRODE, CONTROL PANEL (27315) 9279H21-5		EA	1								D3	
X1 00381		BOARD, TERMINAL (27315) 279H230		EA	1								D3	47
O 00382	5310-202-8552	NUT, PLAIN, HEXAGON: TERMINAL SCREW (96906) MS35690-802		EA	2								D3	46
O 00383	5310-655-9662	NUT, PLAIN, HEXAGON: TERMINAL SCREW (96906) MS35691-802		EA	2								D3	75
O 00384	5305-543-4891	SCREW, CAP, HEXAGON HEAD: TERMINAL (96906) MS35291-114		EA	2								D3	48
X2F 00385		BUS BAR: CONTROL PANEL (27315) 279F164D94		EA	1								D3	31
X2F 00386		BUS BAR: CONTROL PANEL (27315) 279F164D91	A	EA	1								D3	32
X2F 00387		BUS BAR: CONTROL PANEL (27315) 279F164D4		EA	1								D3	33
X2F 00388		BUS BAR: CONTROL PANEL (27315) 279F280D4	A	EA	1								D3	36
X2F 00389		BUS BAR: CONTROL PANEL (27315) 279F164D22		EA	1								D3	37
X2F 00390		BUS BAR: LINK, TORCH ADAPTER (27315) 279H375	B	EA	1								D4	12
X2F 00391		BUS BAR: RECTIFIER (27315) 279F163D49		EA	1								D12	29
X2F 00392		BUS BAR: RECTIFIER (27315) 279F164D92		EA	1								D12	33
X2F 00393		BUS BAR: RECTIFIER (27315) 279F164D95		EA	1								D12	34
X2F 00394		BUS BAR: RECTIFIER SHUNT (27315) 279F166D66		EA	1								D12	31
X20 00395		CABLE ASSEMBLY (27315) 9279F243D13	B	EA	1								D4	15
X20 00396		CABLE ASSEMBLY (27315) 9279F243D14	B	EA	1								D4	14
P20 00397	5935-187-0727	CONNECTOR PLUG, ELECTRICAL: CONTACTOR CONTROL (74545) 7484	A	EA	1	*	*	*	*	*	*	5	D3	13
P20 00398	5935-187-0727	CONNECTOR, PLUG, ELECTRICAL: CONTACTOR CONTROL (74545) 7484	B	EA	1	*	*	*	*	*	*	5	D9	8
PO 00399	5935-149-4181	CONNECTOR, PLUG, ELECTRICAL: OUTPUT SIGNAL (81348) WC596STYLEC21		EA	1	*	*	*	*	*	*	5	D3	8

(1)	(2)	(3)		(4)	(5)	(6)			(7)			(8)	(9)	
SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	UNIT OF MEAS	QTY INC IN UNIT	30-DAY DS MAINT ALLOWANCE			30-DAY GS MAINT ALLOWANCE			1-YR ALW PER 100 EQUIP CNTGY	ILLUS-TRATION	
						(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100		(a) FIG. NO.	(b) ITEM NO.
M F 00441		LEAD, ELECTRICAL: S4-85 TO IT-1Y2 (27315) 279F276030 MANUFACTURE FROM:		EA	1									
P F 00442	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (28 IN. REQUIRED)		FT		SEE	GRP	9501						
F 00443	5940-874-9033	TERMINAL, LUG (89110) 41274		EA	1									
M F 00444		LEAD, ELECTRICAL: 1AM-207 TO CT-233 (27315) 279F530310 MANUFACTURE FROM:		EA	1									
P F 00445	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (8 IN. REQUIRED)		FT		SEE	GRP	9501						
F 00446	5940-518-9382	TERMINAL, LUG (59730) B14-14		EA	1									
M F 00447		LEAD, ELECTRICAL: 2VM TO S3-7, 2VM-210 TO S3-5 (27315) 279F530313 MANUFACTURE FROM:		EA	2									
P F 00448	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (16 IN. REQUIRED FOR EACH LEAD)		FT		SEE	GRP	9501						
F 00449	5940-518-9382	TERMINAL, LUG (59730) B14-14		EA	2									
M F 00450		LEAD, ELECTRICAL: 1VM-213 TO S3-3, 1VM-214 TO S3-12 (27315) 279F530315 MANUFACTURE FROM:		EA	2									
P F 00451	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (24 IN. REQUIRED FOR EACH LEAD)		FT		SEE	GRP	9501						
F 00452	5940-518-9382	TERMINAL, LUG (59730) B14-14		EA	2									
M F 00453		LEAD, ELECTRICAL: S3-7 TO 2VM-209, S3-5 TO 2VM-210, S3-3 TO 1VM-213, S3-12 TO 1VM-214 (27315) 279F530492 MANUFACTURE FROM:		EA	4									
P F 00454	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (12 IN. REQUIRED FOR EACH LEAD)		FT		SEE	GRP	9501						
F 00455	5940-156-1510	TERMINAL, LUG (89110) 34125		EA	4									
M F 00456	6150-190-0997	LEAD, ELECTRICAL: S3-8 TO 2C-160 (27315) 279F2760131 MANUFACTURE FROM:		EA	1									
P F 00457	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (12 IN. REQUIRED)		FT		SEE	GRP	9501						
F 00458	5940-874-9033	TERMINAL, LUG (89110) 41274		EA	1									
M F 00459		LEAD, ELECTRICAL: 255-194 TO 3TT-195 (27315) 279F27607 MANUFACTURE FROM:		EA	1									
P F 00460	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (16 IN. REQUIRED)		FT		SEE	GRP	9501						
F 00461	5940-874-9033	TERMINAL, LUG (89110) 41274		EA	2									
M F 00462		LEAD, ELECTRICAL: 3TT-196 TO TB2-29 (27315) 279F276013 MANUFACTURE FROM:		EA	1									
P F 00463	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (32 IN. REQUIRED)		FT		SEE	GRP	9501						

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUSTRATION	
						(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100		(a) FIG. NO.	(b) ITEM NO.
F 00421	5305-550-9349	SCREW, MACHINE: TERMINAL AND LINK MTG, BRASS, No. 6-32 THD SIZE, 5/8 IN. LG (96906) MS35229-31		EA	6								D11	15
F 00422	5305-550-9345	SCREW, MACHINE: TERMINAL MTG, NICKLE PLATED, No. 6-32 THD SIZE, 1/4 IN. LG (96906) MS35229-26		EA	1								D11	23
X2F 00423		TERMINAL, QUICK DISCONNECT (70611) 3000M131		EA	5								D11	17
X2F 00424		TERMINAL, QUICK DISCONNECT (70611) 3000C25-3		EA	1								D11	26
F 00425	5310-656-0026	WASHER, FLAT: TERMINAL AND LINK MTG SCREW, BRASS, No. 5/32 IN. ID, 5/16 IN. OD, 3/64 IN. THK (96906) MS15795-605		EA	6								D11	16
X2F 00426		LEAD ASSEMBLY, SHUNT (27315) 9279H356		EA	1								D12	32
M F 00427		LEAD, ELECTRICAL: SX67 TO SX70, SX68 TO SX71, SX69 TO SX72 (27315) 279F276043 MANUFACTURE FROM:		EA	3									
P F 00428	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (16 IN. REQUIRED FOR EACH LEAD)		FT		SEE	GRP	9501						
M F 00429		LEAD, ELECTRICAL: 5C-76 TO 6C-78, 5C-77 TO 6C-79 (27315) 279F27601 MANUFACTURE FROM:		EA	2									
P F 00430	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (4 IN. REQUIRED FOR EACH LEAD)		FT		SEE	GRP	9501						
F 00431	5940-874-9033	TERMINAL, LUG (89110) 41274		EA	2									
M F 00432		LEAD, ELECTRICAL: 5C76 TO IT-1Z1 (27315) 279F276023 MANUFACTURE FROM:		EA	1									
P F 00433	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (12 IN. REQUIRED)		FT		SEE	GRP	9501						
F 00434	5940-874-9033	TERMINAL, LUG (89110) 41274		EA	1									
M F 00435		LEAD, ELECTRICAL: 6C-79 TO IT-1Z2, SX-73 TO TB2-34, SX-66 TO TB2-39 (27315) 279F276027 MANUFACTURE FROM:		EA	3									
P F 00436	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (20 IN. REQUIRED FOR EACH LEAD)		FT		SEE	GRP	9501						
F 00437	5940-874-9033	TERMINAL, LUG (89110) 41274		EA	3									
M F 00438		LEAD, ELECTRICAL: 1CR-80 TO IT-1Y1 (27315) 279F276033 MANUFACTURE FROM:		EA	1									
P F 00439	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (3 FT 6 IN. REQUIRED)		FT		SEE	GRP	9501						
F 00440	5940-874-9033	TERMINAL, LUG (89110) 41274		EA	1									

(1)	(2)	(3)		(4)	(5)	(6)			(7)			(8)	(9)	
SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	UNIT OF MEAS	QTY INC IN UNIT	30-DAY DS MAINT ALLOWANCE			30-DAY GS MAINT ALLOWANCE			1-YR ALW PER 100 EQUIP CNTGY	ILLUSTRATION	
						(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100		(a) FIG. NO.	(b) ITEM NO.
X2F 00487	6150-190-0998	LEAD, ELECTRICAL: 1RES-230 TO S3-3 (27315) 279F238-181		EA	1									
0 00488	5310-012-0622	NUT, PLAIN, HEXAGON: AXILLARY AC POWER RECEPTACLE MTG, CADMIUM OR ZINC CHROMATE, No. 8-32 THD SIZE (96906) MS35649-82		EA	2								D3	39
0 00489	5310-543-4971	NUT, PLAIN, HEXAGON: INPUT GROUND STUD, BRASS (96906) MS35690-411		EA	2								D1	27
0 00490	5310-013-4530	NUT, PLAIN, HEXAGON: RECEPTACLE MOUNTING (96906) MS35649-62	A	EA	4								D3	22
0 00491	5310-550-0777	NUT, PLAIN, HEXAGON: TERMINAL BOARD MTG SCREW (96906) MS35690-402		EA	2								D3	49
0 00492	5305-550-3934	SCREW, CAP, HEXAGON HEAD: INPUT GROUND STUD, BRASS, 1/4-20 THD SIZE (96906) MS35309-8		EA	1								D1	19
0 00493	5305-531-1783	SCREW, CAP, HEXAGON HEAD: TERMINAL BOARD MTG, CADMIUM OR ZINC CHROMATE, 1/4-20 THD SIZE, 1 IN. LG (96906) MS35291-8		EA	2								D3	51
0 00494	5305-043-6693	SCREW, MACHINE: AXILLARY AC POWER RECEPTACLE AND SOLENOID VALVE MTG, CADMIUM OR ZINC CHROMATE, No. 8-32 THD SIZE, 3/8 IN. LG (96906) MS35225-43		EA	6								D3	53
X2F 00495	5940-230-9911	SPLICE, CONDUCTOR (89110) 34138		EA	14									
X2F 00496		SPLICE, CONDUCTOR (89110) 32445		EA	2									
X2F 00497		SPLICE, CONDUCTOR (89110) 32446		EA	1									
X2F 00498		SWITCH ASSEMBLY, FOOT: WELDER (27315) 9579H29-2	A	EA	1								D5	
X2F 00499		ADAPTER, CABLE TO CONNECTOR: BASE (27315) 0915V001	A	EA	1								D5	2
P2F 00500	3431-891-0972	CABLE ASSEMBLY, ELECTRICAL: FOOT SWITCH (27315) 279F119D18	A	EA	1	*	*	*	*	*	*	5	D5	14
P O 00501	5935-891-2671	CONNECTOR, PLUG, ELECTRICAL: SWITCH CABLE (81348) WC596STYLE	A	EA	1	*	2	2	*	2	2	12	D5	1
X2F 00502		SWITCH, FOOT: WELDER (97918) 4141D	A	EA	1								D5	
X1 00503		BASE, FOOT SWITCH (97918) 1-475M	A	EA	1								D5	13
X1 00504		COVER, SWITCH (97918) 1-475L	A	EA	1								D5	3
0 00505	5310-013-1498	NUT, PLAIN, CAP: SWITCH COVER MTG STUD, CADMIUM OR ZINC PLATED, No. 10-32 THD SIZE (27315) 20261605	A	EA	2								D5	4
X1 00506		ROLL, CAM: FOOT SWITCH (97918) 2-475L	A	EA	1								D5	7

(1)	(2)	(3)		(4)	(5)	(6)			(7)			(8)	(9)	
SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION				30-DAY DS MAINT ALLOWANCE			30-DAY GS MAINT ALLOWANCE			1-YR ALW PER 100 EQUIP CNTGY	ILLUSTRATION	
		REF NUMBER & MFR CODE	USABLE ON CODE	UNIT OF MEAS	QTY INC IN UNIT	(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100		(a) FIG. NO.	(b) ITEM NO.
F 00464	5940-874-9033	TERMINAL, LUG (89110) 41274		EA	2									
M F 00465		LEAD, ELECTRICAL; M-103 TO TB-1 (27315) 279F660253 MANUFACTURE FROM:		EA	1									
P F 00466	6145-686-4396	WIRE, ELECTRICAL; No. 6 AWG (17 IN. REQUIRED)		FT		SEE	GRP	9501						
F 00467	5940-050-6221	TERMINAL, LUG (59730) E71		EA	2									
M F 00468		LEAD, ELECTRICAL; M-132 TO TB1-4 (27315) 279F660254 MANUFACTURE FROM:		EA	1									
P F 00469	6145-686-4396	WIRE, ELECTRICAL; No. 6 AWG (21 IN. REQUIRED)		FT		SEE	GRP	9501						
F 00470	5940-050-6221	TERMINAL, LUG (59730) E71		EA	2									
M F 00471		LEAD, ELECTRICAL; M-131 TO TB4-L1 (27315) 279F660255 MANUFACTURE FROM:		EA	1									
P F 00472	6145-688-4396	WIRE, ELECTRICAL; No. 6 AWG (35 IN. REQUIRED)		FT		SEE	GRP	9501						
F 00473	5940-050-6221	TERMINAL, LUG (59730) E71		EA	2									
M F 00474		LEAD, ELECTRICAL; M-129 TO TP4-12 (27315) 279F660256 MANUFACTURE FROM:		EA	1									
P F 00475	6145-686-4396	WIRE, ELECTRICAL; No. 6 AWG (3 FT 1 IN. REQUIRED)		FT		SEE	GRP	9501						
F 00476	5940-050-6221	TERMINAL, LUG (59730) E71		EA	2									
M F 00477		LEAD, ELECTRICAL (27315) 279F238D066 MANUFACTURE FROM:		EA	1									
P F 00478	6150-190-0998	WIRE, ELECTRICAL; No. 0, 2646 STRANDS OF No. 34, .0063 IN. AWG (28 IN. REQUIRED)		FT		SEE	GRP	9501						
F 00479		TERMINAL, LUG (89110) 36925		EA	1									
F 00480		TERMINAL, LUG (89110) 36921		EA	1									
M F 00481		LEAD, ELECTRICAL; SX-5 TO S2-1 (27315) 279F238D181 MANUFACTURE FROM:		EA	1									
P F 00482	6150-190-0998	WIRE, ELECTRICAL; No. 0, 2646 STRANDS OF No. 34, .0063 IN. AWG (52 IN. REQUIRED)		FT		SEE	GRP	9501						
F 00483		TERMINAL, LUG (89110) 36922		EA	2									
X2F 00484		LEAD, ELECTRICAL; 4T-4X1 TO S3-9 (27315) 279F238D81		EA	1									
X2F 00485		LEAD, ELECTRICAL; 4T-4X2 TO TB3-E1 (27315) 279F238D117		EA	1									
X2F 00486		LEAD, ELECTRICAL; SX-7 TO 1RE3-229 (27315) 279F238D89		EA	1									

(1)	(2)	(3)		(4)	(5)	(6)			(7)			(8)	(9)	
SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	UNIT OF MEAS	QTY INC IN UNIT	30-DAY DS MAINT ALLOWANCE			30-DAY GS MAINT ALLOWANCE			1-YR ALW PER 100 EQUIP CNTGY	ILLUS-TRATION	
						(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100		(a) FIG. NO.	(b) ITEM NO.
O 00524	5310-017-4916	WASHER, LOCK: INPUT GROUND STUD, CADMIUM OR ZINC PLATED, 0.262 IN. ID, 0.036 IN. THK (78189) 4014-22-00		EA	1								D1	26
O 00525	5310-011-5547	WASHER, LOCK: INPUT GROUND STUD, 0.262 IN. ID, 0.469 IN. OD, 0.025 IN. THK (96906) MS35333-6	A	EA	1								D1	20
O 00526	5310-596-7674	WASHER, LOCK: RECEPTACLE MTG (96906) MS35338-22	A	EA	4								D3	21
00527		4409 - PROTECTIVE DEVICES, ELECTRICAL												
X20 00528	5920-280-3763	ADAPTER, FUSE (08288) MS55920-02		EA	1								D3	54
X20 00529	5920-221-5689	FUSEHOLDER: CONTROL PANEL (08288) MS55920-02		EA	1								D3	38
P O 00530	5920-280-9312	FUSE, PLUG: CONTROL PANEL (71400) S5-6-10		EA	1	*	2	2	*	2	2	12	D3	55
O 00531	5310-012-0614	NUT, PLAIN, HEXAGON: THERMOSTATIC SWITCH MTG SCREW (96906) MS35650-102		EA	3								D12	55
O 00532	5305-043-6750	SCREW, MACHINE: THERMOSTATIC SWITCH MTG (96906) MS35226-63		EA	3								D12	49
X20 00533		SWITCH ASSEMBLY, THERMOSTATIC: POWER RECTIFIER BASE (27315) 9279F291-1		EA	1								D12	
X1 00534		BASE: THERMOSTATIC SWITCH (27315) 279H413		EA	1								D12	59
X1 00535		BRACKET: SWITCH (27315) 279H195		EA	1								D12	58
M F 00536		LEAD, ELECTRICAL: 1TT-191 TO M-97 MANUFACTURE FROM:		EA	1									
P F 00537	6145-192-3268	WIRE, ELECTRICAL: No. 14 AMERICAN WIRE GAGE (5 FT 2 IN. REQUIRED)		FT		SEE GRP 9501								
F 00538	5940-050-7095	TERMINAL, LUG (89110) 41330		EA	1									
M F 00539		LEAD ELECTRICAL: 2TT-193 TO 1TT-192 (27315) 279F32003 MANUFACTURE FROM:		EA	1									
P F 00540	6145-192-3268	WIRE, ELECTRICAL: No. 14 AMERICAN WIRE GAGE (4 FT 4 IN. REQUIRED)		FT		SEE GRP 9501								
F 00541	5940-874-9033	TERMINAL, LUG (89110) 41274		EA	1									
O 00542	5310-012-0622	NUT, PLAIN, HEXAGON: BASE AND SUPPORT MTG SCREW (96906) MS35649-82		EA	2								D12	63
O 00543	5305-043-6693	SCREW, MACHINE: BASE AND SUPPORT MTG (96906) MS35225-43		EA	2								D12	56
X1 00544		SUPPORT, THERMOSTATIC SWITCH (27315) 279H414		EA	1								D12	61
P20 00545	5930-012-4409	SWITCH, THERMOSTATIC (27315) 279Z9101		EA	1	*	*	*	*	*	*	5	D12	60

(1)	(2)	(3)		(4)	(5)	(6)			(7)			(8)	(9)	
SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	UNIT OF MEAS	QTY INC IN UNIT	30-DAY DS MAINT ALLOWANCE			30-DAY GS MAINT ALLOWANCE			1-YR ALW PER 100 EQUIP CNTGY	ILLUS-TRATION	
						(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100		(a) FIG. NO.	(b) ITEM NO.
F 00507	5305-576-7099	SCREW, TAPPING THREAD FORMING: CAN ROLL RETAINING, CADMIUM OR ZINC PLATED, No. 4-24 THD SIZE, 5/16 IN. LG (27315) 2024004	A	EA	2								D5	9
F 00508		SCREW, TAPPING, THREAD FORMING: SWITCH MTG (97918) 4-475M	A	EA	1								D5	12
P F 00509	5340-012-4377	SPRING, HELICAL, COMPRESSION: COVER RETURN (97918) 7-475M	A	EA	1	*	2	2	*	2	2	12	D5	10
X1 00510		STUD, CAM ROLL: FOOT SWITCH (97918) 3-475L	A	EA	1								D5	8
0 00511		STUD, PLAIN: SWITCH COVER MTG (97918) 3-475M	A	EA	1								D5	6
P2F 00512	5930-012-4402	SWITCH, SENSITIVE (97918) 414101	A	EA	1	*	*	*	*	*	*	5	D5	11
0 00513	5310-043-2226	WASHER, LOCK: SWITCH COVER MTG STUD, CADMIUM OR ZINC PLATED, 0.194 IN. ID, 0.337 IN. OD, 0.047 IN. THK (96906) MS35338-24	A	EA	2								D5	5
F 00514		TERMINAL LUG: AC EXTENSION TO RANGE SWITCH AND SELECTOR SWITCH (89110) 325202	A	EA	2									
F 00515	5940-504-5886	TERMINAL, LUG: FOOT SWITCH CABLE, COPPER, TINNED FINISH, No. 16-14 AWG FOR No. 8 STUD SIZE (89110) 34122	A	EA	4									
F 00516		TERMINAL, LUG: HIGH REACTOR TO RANGE SWITCH (89110) 325402	A	EA	1									
0 00517	5940-050-6221	TERMINAL, LUG: INPUT GROUND STUD, COPPER, TINNED, No. 6 AWG FOR 1/4 IN. BOLT SIZE (59730) E71		EA	1								D1	28
F 00518	5940-020-0116	TERMINAL, LUG: LOW REACTOR TO RANGE SWITCH, BRASS, No. 6 AWG, 5/16 IN. STUD SIZE (89110) 32466	A	EA	1									
F 00519		TERMINAL, LUG: LOW REACTOR TO RANGE SWITCH (89110) 328163	B	EA	1									
F 00520		TERMINAL, LUG: MEDIUM REACTOR RANGE SWITCH (89110) 325302	A	EA	1									
F 00521		TERMINAL, LUG: SPL LOW RANGE TO RANGE SWITCH (89110) 33459	B	EA	1									
F 00522	5940-874-9033	TERMINAL, QUICK DISCONNECT: CONTROL TRANSFORMER 2T LEADS TO TERMINAL BOARD TB2 (89110) 41274	A	EA	6									
0 00523	5310-209-5309	WASHER, LOCK: AXILLARY AC POWER RECEPTACLE AND SOLENOID VALVE MTG, CADMIUM OR ZINC CHROMATE, 0.168 IN. ID, 0.296 IN. OD, 0.40 IN. THK (96906) MS35338-23		EA	6								D3	52

(1)	(2)	(3)		(4)	(5)	(6)			(7)			(8)	(9)	
SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	UNIT OF MEAS	QTY INC IN UNIT	30-DAY DS MAINT ALLOWANCE			30-DAY GS MAINT ALLOWANCE			1-YR ALW PER 100 EQUIP CNTGY	ILLUS-TRATION	
						(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100		(a) FIG. NO.	(b) ITEM NO.
P O 00568	5930-012-4403	SWITCH, THERMOSTATIC (27315) 279Z91D4		EA	1	*	*	2	*	*	2	6	D12	44
X2F 00569		TERMINAL, QUICK DISCONNECT (70611) 3000M362		EA	2								D12	65
O 00570	5310-209-5309	WASHER, LOCK: TERMINAL, BASE AND SUPPORT MTG SCREW (96906) MS35338-23		EA	4								D12	42
O 00571	5310-043-2226	WASHER, LOCK: THERMOSTATIC SWITCH MOUNTING (96906) MS35338-24		EA	3								D12	50
O 00572	5310-010-3319	WASHER, LOCK: TERMINAL BOARD MTG SCREW, 0.255 IN. ID, 0.493 IN. OD, 0.062 IN. THK (96906) MS35338-6		EA	2								D3	76
00573		4410 - SWITCHING, TIMING AND SPEED CONTROL												
X20 00574	5945-012-4430	CONTACTOR (04009) 34522U	A	EA	1								D10	14
X20 00575		CONTACTOR (12584) AGO-290650A	B	EA	1								D10	14
F 00576	5310-013-4530	NUT, PLAIN, HEXAGON: RELAY MTG SCREW (96906) MS35649-62		EA	12								D7	8
F 00577		NUT, SELF-LOCKING, HEXAGON: CONDENSOR MTG SCREW (78553) 67343-1420-4		EA	4								D11	1
O 00578		NUT, SELF-LOCKING, HEXAGON: CONTACTOR MTG (72962) 22NM02		EA	3								D10	8
O 00579	5310-274-8887	NUT, SELF-LOCKING, HEXAGON: TIMER MTG, CADMIUM OR ZINC PLATED, No. 6-32 THD SIZE (72962) 22NM62		EA	8								D3	20
P F 00580	5945-012-4436	RELAY, ARMATURE (77342) AB1341		EA	1	*	2	2	*	2	2	12	D7	2
P2F 00581	5945-012-4434	RELAY, ARMATURE (77342) AB1338		EA	3	*	*	*	*	*	*	5	D7	3
P2F 00582	5945-012-4431	RELAY, ARMATURE (77342) AB1339		EA	1	*	*	*	*	*	*	5	D7	4
P F 00583	5945-012-4437	RELAY, ARMATURE (77342) AB1337		EA	2	*	*	2	*	*	2	6	D7	5
P2F 00584	5945-012-4441	RELAY, ARMATURE (77342) AB1340		EA	1	*	*	*	*	*	*	5	D7	26
O 00585	5305-021-4602	SCREW, CAP, HEXAGON HEAD: SPARK GAP ASSEMBLY MTG, CADMIUM PLATED, 1/4-28 THD SIZE, 3/4 IN. LG (96906) MS35292-5		EA	2								D12	18
F 00586	5305-984-6194	SCREW, MACHINE: CONDENSOR MTG, CADMIUM OR ZINC CHROMATE, No. 8-32 THD SIZE, 5/8 IN. LG (96906) MS35225-46		EA	4								D11	8
O 00587	5305-043-6752	SCREW, MACHINE: CONTACTOR MTG, CADMIUM OR ZINC CHROMATE, No. 10-32 THD SIZE, 3/4 IN. LG (96906) MS35226-65	A	EA	3								D10	15

(1)	(2)	(3)		(4)	(5)	(6)			(7)			(8)	(9)	
SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	UNIT OF MEAS	QTY INC IN UNIT	30-DAY DS MAINT ALLOWANCE			30-DAY GS MAINT ALLOWANCE			1-YR ALW PER 100 EQUIP CNTGY	ILLUSTRATION	
						(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100		(a) FIG. NO.	(b) ITEM NO.
0 00546	5310-209-5309	WASHER, LOCK: BASE AND SUPPORT MTG SCREW (96906) MS35338-23		EA	2								D12	62
X20 00547		SWITCH ASSEMBLY, THERMOSTATIC: REACTOR COIL (27315) 9279F290-2		EA	1								D12	
X1 00548		BASE: THERMOSTATIC SWITCH (27315) 279H410		EA	1								D12	45
X1 00549		BRACKET: SWITCH MTG (27315) 279H412		EA	1								D12	66
M F 00550		LEAD, ELECTRICAL: THERMOSTATIC SWITCH TO TERMINALS (27315) 279F276D19 MANUFACTURE FROM:		EA	2									
P F 00551	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (4 IN. REQUIRED FOR EACH LEAD)		FT		SEE	GRP	9501						
F 00552	5940-874-9033	TERMINAL, LUG (89110) 41274		EA	2									
0 00553	5310-012-0622	NUT, PLAIN, HEXAGON: TERMINAL, BASE AND SUPPORT MTG SCREW (96906) MS35649-82		EA	4								D12	41
0 00554	5305-043-6693	SCREW, MACHINE: TERMINAL, BASE AND SUPPORT MTG (96906) MS35225-43		EA	4								D12	48
X1 00555		SUPPORT, THERMOSTATIC SWITCH (27315) 279H409		EA	1								D12	69
P20 00556	5930-012-4407	SWITCH, THERMOSTATIC (27315) 279Z91D3		EA	1	*	*	2	*	*	2	6	D12	68
X2F 00557		TERMINAL, QUICK DISCONNECT (70611) 3000M362		EA	2								D12	47
0 00558	5310-209-5309	WASHER, LOCK: TERMINAL, BASE AND SUPPORT MTG SCREW (96906) MS35338-23		EA	4								D12	70
X20 00559		SWITCH ASSEMBLY, THERMOSTATIC: STABILIZING REACTOR (27315) 9279F290-1		EA	1								D12	
X1 00560		BASE: THERMOSTATIC SWITCH (27315) 279H410		EA	1								D12	67
X1 00561		BRACKET: SWITCH MTG (27315) 279H411		EA	1								D12	46
M F 00562		LEAD, ELECTRICAL: THERMOSTATIC SWITCH TO TERMINALS (27315) 279F276D19 MANUFACTURE FROM:		EA	2									
P F 00563	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (4 IN. REQUIRED FOR EACH LEAD)		FT		SEE	GRP	9501						
F 00564	5940-874-9033	TERMINAL, LUG (89110) 41274		EA	2									
0 00565	5310-012-0622	NUT, PLAIN, HEXAGON: TERMINAL, BASE AND SUPPORT MTG SCREW, CADMIUM OR ZINC PLATED, No. 10-32 THD SIZE (96906) MS35649-82		EA	4								D12	71
0 00566	5305-043-6693	SCREW, MACHINE: TERMINAL, BASE AND SUPPORT MTG, CADMIUM OR ZINC CHROMATE, No. 10-32 THD SIZE, 1/2 IN. LG (96906) MS35225-43		EA	4								D12	64
X1 00567		SUPPORT, THERMOSTATIC SWITCH (27315) 279H409		EA	1								D12	43

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE (a) 1-20	(6) (b) 21-50	(6) (c) 51-100	(7) 30-DAY GS MAINT ALLOWANCE (a) 1-20	(7) (b) 21-50	(7) (c) 51-100	(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUSTRATION (a) FIG. NO.	(9) (b) ITEM NO.
0 00588	5305-044-5957	SCREW, MACHINE: RANGE SWITCH AND SELECTOR SWITCH MTG, CADMIUM OR ZINC CHROMATE, 1/4-20 THD SIZE, 3/8 IN. LG (96906) MS35225-77		EA	6								D3	57
F 00589	5305-043-6663	SCREW, MACHINE: RELAY MTG (96906) MS35225-28		EA	12								D7	1
0 00590	5305-043-6663	SCEW, MACHINE: TIMER MTG (96906) MS35225-28		EA	8								D3	3
P 0 00591	3431-012-4362	SPARK GAP ASSEMBLY (27315) 9579F81-1		EA	1	2	2	4	2	2	4	48	D12	
X1 00592		INSULATOR, GAP STUD (27315) 579F133		EA	1								D12	12
0 00593	5305-010-0111	SCREW, CAP, HEXAGON HEAD: SPARK GAP TERMINAL ASSEMBLY MTG, 1/4-20 THD SIZE, 1 1/4 IN. LG (96906) MS35289-10		EA	3								D12	8
0 00594	5310-010-3319	WASHER, LOCK: SPARK GAP TERMINAL ASSEMBLY MTG (96906) MS35338-6		EA	3								D12	9
X1 00595		TERMINAL ASSEMBLY, SPARK GAP (27315) 9279H10		EA	2								D12	10
0 00596	5305-543-4251	SCREW, MACHINE: 1/4-28 THD SIZE, 3/8 IN. LG (96906) MS35222-77		EA	2									
0 00597	531[illegible]-010-3319	WASHER, LOCK (96906) MS35338-6		EA	2									
X1 00598		TERMINAL ASSEMBLY, SPARK GAP (27315) 9279H9		EA	1								D12	11
P20 0059[illegible]	[illegible]930-636-4796	SWITCH, PUSHBUTTON: LINE (27191) H2541A	B	EA	1	*	*	*	*	*	*	5	D4	5
P2F 00600	5930-012-4400	SWITCH, ROTARY: RANGE (27315) 2100F76		EA	1	*	*	*	*	*	*	5	D3	34
X1 00601		BLADE, ELECTRICAL SWITCH (27315) 279H247		EA	4									
X1 00602		CONTACT, ELECTRICAL (27315) 279H245		EA	3									
X1 00603		CONTACT, ELECTRICAL (27315) 279H246		EA	3									
X1 00604		INSULATOR, PLATE (27315) 279H244		EA	13									
X1 00605		INSULATOR, WASHER (27315) 279H243		EA	6									
F 00606	5310-202-8551	NUT, PLAIN, HEXAGON: CONTACT CONNECTION (96906) MS35690-502		EA	1									
X1 00607		PLATE, BACK: RANGE SWITCH (27315) 279H242D2		EA	1									
X1 00608		PLATE, FRONT: RANGE SWITCH (27315) 279H241		EA	1									
F 00609	5305-543-2717	SCREW, CAP, HEXAGON HEAD: BACK PLATE MTG (96906) MS35291-1		EA	1									
F 00610	5305-012-2033	SCREW, CAP, HEXAGON HEAD: CONTACT CONNECTION (96906) MS35291-37		EA	1									

(1)	(2)	(3)		(4)	(5)	(6)			(7)			(8)	(9)	
SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	UNIT OF MEAS	QTY INC IN UNIT	30-DAY DS MAINT ALLOWANCE			30-DAY GS MAINT ALLOWANCE			1-YR ALW PER 100 EQUIP CNTGY	ILLUS-TRATION	
						(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100		(a) FIG. NO.	(b) ITEM NO.
F 00611	5305-012-1960	SCREW, CAP, HEXAGON HEAD: CONTACT MTG, CADMIUM OR ZINC PLATED, 1/4-20 THD SIZE, 2 1/4 IN. LG (96906) MS35291-15		EA	2									
X1 00612		SHAFT, SHOULDERED (27315) 279H29404		EA	1									
X1 00613		SPACER (27315) 279H24802		EA	1									
X1 00614		SPACER (27315) 279H24803		EA	2									
X1 00615	4710-277-5529	TUBE, COPPER: 1/2 IN. DIA (27315) 218H10405		EA	1									
F 00616	5310-194-1540	WASHER FLAT: CONTACT MTG, CADMIUM OR ZINC CHROMATE, 0.281 IN. ID, 0.625 IN. OD, 0.080 IN. THK (96906) MS15795-210		EA	2									
F 00617	5310-012-0380	WASHER, LOCK: CONTACT AND BACK PLATE MTG (96906) MS35338-25		EA	3									
F 00618	5310-012-0214	WASHER, LOCK: CONTACT CONNECTION (96906) MS35338-26		EA	1									
X1 00619		WASHER, SPRING TENSION (27315) 220H45		EA	2									
P2F 00620	5930-761-8720	SWITCH, ROTARY: SELECTOR (27315) 2100E159	A	EA	1	*	*	*	*	*	*	5	03	35
X1 00621		BLADE, ELECTRICAL, SWITCH (27315) 279H247	A	EA	7									
X1 00622		BLADE, ELECTRICAL, SWITCH (27315) 279H301	A	EA	1									
X1 00623		CONTACT, ELECTRICAL (27315) 279H245	A	EA	7									
X1 00624		CONTACT, ELECTRICAL (27315) 279H246	A	EA	5									
X1 00625		INSULATOR, PLATE (27315) 279H244	A	EA	13									
X1 00626		INSULATOR, WASHER (27315) 279H243	A	EA	12									
F 00627	5310-202-8551	NUT, PLAIN, HEXAGON: CONTACT CONNECTION (96906) MS35690-502	A	EA	3									
X1 00628		PLATE, BACK: SELECTOR SWITCH (27315) 279H24204	A	EA	1									
X1 00629		PLATE, FRONT: SELECTOR SWITCH (27315) 279H241	A	EA	1									
F 00630	5305-543-2717	SCREW, CAP, HEXAGON HEAD: BACK PLATE MTG, CADMIUM OR ZINC CHROMATE, 1/4-20 THD SIZE, 3/8 IN. LG (96906) MS35291-1	A	EA	1									
F 00631	5305-680-6004	SCREW, CAP, HEXAGON HEAD: CONTACT CONNECTION (96906) MS35291-32	A	EA	1									

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUSTRATION	
						(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100		(a) FIG. NO.	(b) ITEM NO.
F 00632	5305-012-2033	SCREW, CAP, HEXAGON HEAD: CONTACT CONNECTION, CADMIUM OR ZINC CHROMATE, 5/16-18 THD SIZE, 1 3/8 IN. LG (96906) MS35291-37	A	EA	1									
F 00633	5305-545-8271	SCREW, CAP, HEXAGON HEAD: CONTACT CONNECTION, CADMIUM PLATED, 5/16-18 THD SIZE, 1 3/4 IN. LG (96906) MS35291-39	A	EA	1									
F 00634	5305-637-9506	SCREW, CAP, HEXAGON HEAD: CONTACT MTG, CADMIUM OR ZINC PLATED, 1/4-20 THD SIZE, 3 1/4 IN. LG (96906) MS35291-19	A	EA	2									
X1 00635		SHAFT, SHOULDERED (27315) 279H294D10	A	EA	1									
X1 00636		SPACER (27315) 279H24802	A	EA	3									
X1 00637		SPACER (27315) 279H24803	A	EA	2									
X1 00638		TUBE, COPPER: 1/2 IN. DIA (27315) 218H104D3	A	EA	1									
X1 00639		TUBE, COPPER (27315) 218H104D5	A	EA	1									
X1 00640		TUBE, COPPER (27315) 218H104D7	A	EA	1									
F 00641	5310-194-1540	WASHER, FLAT: CONTACT MTG (96906) MS15795-210	A	EA	2									
F 00642	5310-012-0380	WASHER, LOCK: CONTACT AND BACK PLATE MTG (96906) MS35338-25	A	EA	3									
F 00643	5310-012-0214	WASHER, LOCK: CONTACT CONNECTION (96906) MS35338-26	A	EA	3									
X1 00644		WASHER, SPRING TENSION (27315) 220H45	A	EA	2									
P2F 00645	5930-829-9584	SWITCH, ROTARY: SELECTOR (27315) 2100E105	B	EA	1	*	*	*	*	*	*	5	D4	6
X1 00646		BLADE, ELECTRICAL (27315) 279H247	B	EA	7									
X1 00647		BLADE, ELECTRICAL (27315) 279H301	B	EA	1									
X1 00648		CONTACT, ELECTRICAL (27315) 279H245	B	EA	7									
X1 00649		CONTACT, ELECTRICAL (27315) 279H246	B	EA	5									
X1 00650		INSULATOR, PLATE (27315) 279H244	B	EA	13									
X1 00651		INSULATOR, WASHER (27315) 279H243	B	EA	12									
F 00652	5310-543-2629	NUT, PLAIN, HEXAGON: CONTACT CONNECTION (96906) MS35690-502	B	EA	2									
X1 00653		PLATE, BACK: SELECTOR SWITCH (27315) 279H2403	B	EA	1									

(1)	(2)	(3)		(4)	(5)	(6)			(7)			(8)	(9)	
SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	UNIT OF MEAS	QTY INC IN UNIT	30-DAY DS MAINT ALLOWANCE			30-DAY GS MAINT ALLOWANCE			1-YR ALW PER 100 EQUIP CNTGY	ILLUS- TRATIO	
						(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100		(a) FIG. NO.	(b) ITE NO
X1 00654		PLATE, FRONT: SELECTOR SWITCH (27315) 279H241	B	EA	1									
F 00655	5305-543-2717	SCREW, CAP, HEXAGON HEAD: BACK PLATE MTG, CADMIUM OR ZINC CHROMATE, 1/4-20 THD SIZE, 3/8 IN. LG (96906) MS35291-1	B	EA	1									
F 00656	5305-680-6004	SCREW, CAP, HEXAGON HEAD: CONTACT CONNECTION (96906) MS35291-32	B	EA	1									
F 00657	5305-012-2033	SCREW, CAP, HEXAGON: CONTACT CONNECTION, CADMIUM OR ZINC CHROMATE, 5/16-18 THD SIZE, 1 3/8 IN. LG (96906) MS35291-37	B	EA	1									
F 00658	5305-545-8271	SCREW, CAP, HEXAGON HEAD: CONTACT CONNECTION, CADMIUM PLATED, 5/16-18 THD SIZE, 1 3/4 IN. LG (96906) MS35291-39	B	EA	1									
F 00659	5305-637-9506	SCREW, CAP, HEXAGON HEAD: CONTACT MTG, CADMIUM OR ZINC PLATED, 1/4-20 THD SIZE, 3 1/4 IN. LG (96906) MS35291-19	B	EA	2									
X1 00660		SHAFT, SHOULDERED (27315) 279H294D8	B	EA	1									
X1 00661		SPACER (27315) 279H248D2	B	EA	3									
X1 00662		SPACER (27315) 279H248D3	B	EA	2									
X1 00663		TUBE, COPPER: 1/2 IN. DIA (27315) 218H104D3	B	EA	1									
X1 00664		TUBE, COPPER (27315) 218H104D5	B	EA	1									
X1 00665		TUBE, COPPER (27315) 218H104D7	B	EA	1									
F 00666	5310-194-1540	WASHER, FLAT: CONTACT MTG (96906) MS15795-210	B	EA	2									
F 00667	5310-012-0380	WASHER, LOCK: CONTACT AND BACK PLATE MTG (96906) MS35338-25	B	EA	3									
F 00668	5310-012-0214	WASHER, LOCK: CONTACT CONNECTION (96906) MS35338-26	B	EA	2									
X1 00669		WASHER, SPRING TENSION (27315) 220H45	B	EA	2									
P20 00670	5930-012-4410	SWITCH, TOGGLE: HIGH FREQUENCY AND WELDING PROCESS (27191) 7613K4		EA	2	*	*	2	*	*	2	6	D3	2
P20 00671	5930-012-4411	SWITCH, TOGGLE: LINE (27191) 7611K4		EA	1	*	*	*	*	*	*	5	D3	2
P20 00672	5930-012-4414	SWITCH, TOGGLE: REMOTE CONTROL AND SOFT START (27191) 7565K8		EA	2	*	*	2	*	*	2	6	D3	2
P20 00673	6645-840-6186	TIMER, INTERVAL: POST-PURGE (30703) H1M	A	EA	1	*	*	*	*	*	*	5	D3	

(1)	(2)	(3)		(4)	(5)	(6)			(7)			(8)	(9)	
SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	UNIT OF MEAS	QTY INC IN UNIT	30-DAY DS MAINT ALLOWANCE			30-DAY GS MAINT ALLOWANCE			1-YR ALW PER 100 EQUIP CNTGY	ILLUSTRATION	
						(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100		(a) FIG. NO.	(b) ITEM NO.
P20 00674	6645-840-6186	TIMER, INTERVAL: POST-PURGE AND PRE-PURGE (30703) H1M	B	EA	2	*	*	*	*	*	*	5	D4	3
P20 00675	6645-012-4371	TIMER, INTERVAL: TIMED WELD (30703) H6S		EA	1	*	*	*	*	*	*	5	D3	6
X20 00676		TIMER ASSEMBLY, INTERVAL: TIMED WELD REPAIR KIT (27315) 2100H1531	B	EA	1								D9	
P20 00677	5935-187-0727	CONNECTOR, PLUG, ELECTRICAL: CONTACTOR CONTROL (74545) 7484	B	EA	1	SEE	GRP	4408					D9	8
P20 00678	5935-259-3105	CONNECTOR, PLUG, ELECTRICAL: OUTPUT SIGNAL (74545) 7428	B	EA	1	SEE	GRP	4408					D9	7
P20 00679	5935-892-9806	CONNECTOR, PLUG, ELECTRICAL: WELD TIMER CINCH JONES (71785) P1-2412SB	B	EA	1	SEE	GRP	4408					D9	3
P20 00680	5935-201-3545	CONNECTOR, RECEPTACLE, ELECTRICAL: CONTACTOR CONTROL (74545) 287Z44	B	EA	1	SEE	GRP	4408					D9	9
P20 00681	5935-178-8077	CONNECTOR, RECEPTACLE, ELECTRICAL: OUTPUT SIGNAL (74545) 287Z32	B	EA	1	SEE	GRP	4408					D9	6
X20 00682		DOOR: TIME WELD (27315) 214H81	B	EA	1								D9	1
X20 00683		GROMMET, PLASTIC (27315) 287231013	B	EA	1	SEE	GRP	4407					D9	2
X20 00684		PLATE, IDENTIFICATION: TIMED WELD (27315) 232F291	B	EA	1	SEE	GRP	2210					D9	12
X20 00685	5945-012-4431	RELAY, ARMATURE (77342) AB1339	B	EA	1								D9	4
X20 00686	5945-012-4437	RELAY, ARMATURE (77342) AB1337	B	EA	1								D9	5
O 00687	5320-582-3304	RIVET, BLIND, SELF-PLUGGING SHANK, UNIVERSAL HEAD: IDENTIFICATION AND INSTRUCTION PLATE, ALUMINUM, 1/8 IN. DIA, 0.232 IN. LG (96906) MS20600AD4-2	B	EA	14	SEE	GRP	2210					D9	10
O 00688	5305-988-1724	SCREW, MACHINE: TIMED WELD PANEL MTG (96906) MS35206-280	B	EA	1								D9	13
X20 00689	6645-012-4371	TIMER, INTERVAL: TIMED WELD (30703) H6S	B	EA	1								D9	11
O 00690	5310-543-2705	WASHER, LOCK: TIMED WELD PANEL MTG (96906) MS35338-27	B	EA	1								D9	14
P O 00691	4810-012-4355	VALVE, SOLENOID: WATER AND GAS CONTROL (05402) 70291-063		EA	2	*	2	2	*	2	2	12	D3	44
F 00692	5310-202-8546	WASHER, FLAT: CONDENSOR MTG SCREW (96906) MS15795-207		EA	4								D11	2
F 00693	5310-045-0591	WASHER, LOCK: RELAY MTG SCREW (96906) MS35338-22		EA	12								D7	7
O 00694	5310-012-0380	WASHER, LOCK: SPARK GAP ASSEMBLY MTG (96906) MS35338-25		EA	2								D12	17

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUS-TRATION	
						(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100		(a) FIG. NO.	(b) ITEM NO.
00695		4411 - RESISTOR COMPONENTS												
X2F 00696	5355-160-7116	KNOB: OUTPUT CONTROL RHEOSTAT (44655) 5130	A	EA	1								D8	18
X2F 00697	5355-518-1855	KNOB: PHASE SHIFT AND INTENSITY RHEOSTATS (44655) 5150		EA	2								D3	67
F 00698	5310-012-0622	NUT, PLAIN, HEXAGON: NON-INDUCTIVE RESISTOR MTG SCREW (96906) MS35649-82		EA	2								D12	21
X2F 00699		RESISTOR ASSEMBLY, BALLAST (27315) 9280F6-1		EA	1								D2	1
X2F 00700		ELEMENT, RESISTANCE (27315) 280F3D1		EA	1									
X2F 00701		INSULATOR, BUSHING (27315) 275Z4002		EA	8									
X2F 00702		INSULATOR, BUSHING (27315) 275Z4001		EA	2									
F 00703	5310-550-0777	NUT, PLAIN, HEXAGON: RESISTANCE ELEMENT MTG SCREW (96906) MS35690-402		EA	2									
F 00704	5310-274-8893	NUT, SELF-LOCKING, HEXAGON: RESISTANCE ELEMENT MTG (72962) 21CU040		EA	2									
F 00705	5305-014-3253	SCREW, CAP, HEXAGON HEAD: RESISTANCE ELEMENT MTG (96906) MS35291-19		EA	2									
X2F 00706		STRAP, MOUNTING: RESISTANCE ELEMENT (27315) 216H552		EA	2									
F 00707	5310-194-1540	WASHER, FLAT: RESISTANCE ELEMENT MTG SCREW (96906) MS15795-210		EA	2									
F 00708	5310-012-0380	WASHER, LOCK: RESISTANCE ELEMENT MTG SCREW (96906) MS35338-25		EA	2									
X1 00709		WASHER, SPRING TENSION: RESISTANCE ELEMENT MTG (78189) 3502-14-15		EA	4									
X2F 00710		RESISTOR ASSEMBLY: DISCHARGE (27315) 9279H20-2		EA	1								D7	
X2F 00711	5970-989-5367	INSULATOR, WASHER: RESISTOR MTG (44655) 6011		EA	2								D7	21
F 00712		NUT, PLAIN, CAP: RESISTOR MTG (27315) 20Z61604		EA	1								D7	13
F 00713	5310-012-0622	NUT, PLAIN, HEXAGON: RESISTOR MTG (96906) MS35649-82		EA	1								D7	18
F 00714	5310-650-0190	NUT, SHEET, SPRING: RESISTOR MOUNTING (78553) C7000-832-4		EA	1								D7	19
P2F 00715	5905-051-3151	RESISTOR, FIXED, WIRE WOUND (27315) 280Z33		EA	1	*	*	*	*	*	*	5	D7	22
F 00716	5305-043-6707	SCREW, MACHINE: RESISTOR MTG, CADMIUM OR ZINC PLATED, No. 8-32 THD SIZE, 3 IN. LG (96906) MS35225-57		EA	1								D7	23
F 00717	5310-011-5544	WASHER, LOCK: RESISTOR MTG (96906) MS35333-4		EA	2								D7	14

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUSTRATION	
						(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100		(a) FIG. NO.	(b) ITEM NO.
F 00718	5310-596-4694	WASHER, SHOULDER: RESISTOR MTG, CADMIUM PLATED, 0.187 IN. ID, 0.563 IN. OD, 0.024 IN. THK (44655) 6000		EA	2								D7	20
P2F 00719	5905-012-4380	RESISTOR, FIXED, WIRE WOUND (27315) 80Z11		EA	1	*	*	*	*	*	*	5	D12	73
P2F 00720	5905-012-4382	RESISTOR, FIXED, WIRE WOUND: NON-INDUCTIVE (44655) 4KN53-25BN10		EA	1	*	*	*	*	*	*	5	D12	4
X2F 00721		RHEOSTAT ASSEMBLY, REMOTE: OUTPUT CONTROL (27315) 9279E26-9	A	EA	1								D8	
X2F 00722	5975-337-6653	ADAPTER, CABLE TO CONNECTOR: HOUSING (59730) 3303	A	EA	1								D8	11
P20 00723	3431-012-4357	CABLE ASSEMBLY, ELECTRICAL: REMOTE RHEOSTAT (27315) 279F109026	A	EA	1	*	*	*	*	*	*	5	D8	12
P20 00724	5935-296-8672	CONNECTOR, PLUG, ELECTRICAL: REMOTE RHEOSTAT CABLE (74545) 7411	A	EA	1	*	*	*	*	*	*	5	D8	14
X1 00725		HOUSING: RHEOSTAT (27315) 214F9501	A	EA	1								D8	8
F 00726	5310-010-3088	NUT, PLAIN, HEXAGON: BASE GROUNDING SCREW, No. 10-32 THD SIZE (96906) MS35650-101	A	EA	1								D8	9
F 00727	5310-202-8549	NUT, SHEET SPRING: SHROUD MOUNTING (78553) C1793-1024	A	EA	10								D8	6
		PLATE, IDENTIFICATION: REMOTE RHEOSTAT (27315) 232H96	A	EA	1	SEE GRP 2210							D8	2
X2F 00729		PLATE, INSTRUCTION: CALIBRATION (27315) 232H95	A	EA	1	SEE GRP 2210							D8	15
X2F 00730	5355-160-7116	KNOB: OUTPUT CONTROL RHEOSTAT (44655) 5130		EA	1								D3	15
P2F 00731	5905-012-4389	RHEOSTAT: REMOTE OUTPUT CONTROL (44655) 46460		EA	1	*	*	*	*	*	*	5	D3	17
F 00732	5305-270-7525	SCREW, CAP, HEXAGON HEAD: RHEOSTAT MTG, 1/4-20 THD SIZE, 5/8 IN. LG (96906) MS35289-5	A	EA	2								D8	17
F 00733	5305-043-6589	SCREW, MACHINE: BASE GROUNDING, CADMIUM PLATED, No. 10-24 THD SIZE, 5/8 IN. LG (96906) MS35222-64	A	EA	1								D8	13
O 00734	5305-011-3231	SCREW, TAPPING, THREAD FORMING: IDENTIFICATION PLATE MTG (27315) 2024007	A	EA	2	SEE GRP 2210							D8	1
F 00735	5305-811-9252	SCREW, TAPPING, THREAD FORMING: SHROUD MTG, CADMIUM OR ZINC PLATED, No. 10-32 THD SIZE, 5/8 IN. LG (27315) 20Z40021	A	EA	10								D8	4
X1 00736		SHROUD: RHEOSTAT HOUSING (27315) 277F84	A	EA	1								D8	5

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUSTRATION	
						(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100		(a) FIG. NO.	(b) ITEM NO.
F 00737	5310-616-3021	WASHER, FLAT: SHROUD MTG AND BASE GROUNDING, 0.190 IN. ID, 0.438 IN. OD, 0.065 IN. THK (96906) MS15795-8	A	EA	11								D8	3
F 00738	5310-197-3140	WASHER, LOCK: BASE GROUNDING SCREW (78189) 4010-18-00	A	EA	1								D8	10
F 00739	5310-010-3319	WASHER, LOCK: RHEOSTAT MTG (96906) MS35338-6	A	EA	2								D8	16
P2F 00740	5905-690-0479	RHEOSTAT: INTENSITY (37942) 75K5P		EA	1	*	*	*	*	*	*	5	D3	30
P2F 00741	5905-012-4389	RHEOSTAT: OUTPUT CONTROL (44655) 46460	A	EA	1	*	*	*	*	*	*	5	D8	7
P2F 00742	5905-761-8719	RHEOSTAT: PHASE SHIFT (44655) 46464A		EA	1	*	*	*	*	*	*	5	D3	29
F 00743	5305-637-4028	SCREW, CAP, HEXAGON HEAD: OUTPUT CONTROL RHEOSTAT MOUNTING (96906) MS35291-3		EA	2								D3	18
F 00744	5305-043-6693	SCREW, MACHINE: NON-INDUCTIVE RESISTOR MTG (96906) MS35225-43		EA	2								D12	3
P2F 00745	6625-012-4468	SHUNT, INSTRUMENT (08931) 50-140011-500		EA	1	*	*	*	*	*	*	5	D12	30
F 00746	5310-012-0214	WASHER, LOCK: NON-INDUCTIVE RESISTOR MTG SCREW (96906) MS35338-26		EA	2								D12	20
F 00747	5310-012-0380	WASHER, LOCK: OUTPUT CONTROL RHEOSTAT MTG SCREW (96906) MS35338-25		EA	2								D3	19
00748		4412 - TRANSFORMER COMPONENTS												
P F 00749	5910-012-4390	CAPACITOR, FIXED: POWER FACTOR (74545) 49F6036		EA	2	*	2	2	*	2	2	12	D11	3
X2F 00750		COIL ASSEMBLY, HIGH FREQUENCY AND INDUCTION (27315) 9279E122-2		EA	1								D12	
X2F 00751		BRACKET, MOUNTING: HIGH FREQUENCY TRANSFORMER (27315) 2164599		EA	1								D12	57
P2F 00752	5910-012-4391	CAPACITOR, FIXED: CLEANING (01002) 49F6221		EA	1	*	*	*	*	*	*	5	D12	74
P2F 00753	5910-012-4363	CAPACITOR, MICA DIELECTRIC: BY-PASS (14655) 217-6A		EA	2	*	*	*	*	*	*	5	D12	1
X2F 00754		COIL ASSEMBLY, INDUCTION (27315) 9275A72-8		EA	1								D12	14
M F 00755		LEAD, ELECTRICAL: 2 RES-145 TO 3C-146, 3C-147 TO 2C-159 (27315) 279F27602 MANUFACTURE FROM:		EA	2									
P F 00756	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (6 IN. REQUIRED FOR EACH LEAD)		FT	[illegible]	SEE	GRP 9504							

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE (a) 1-20	(6) (b) 21-50	(6) (c) 51-100	(7) 30-DAY GS MAINT ALLOWANCE (a) 1-20	(7) (b) 21-50	(7) (c) 51-100	(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUSTRATION (a) FIG. NO.	(9) (b) ITEM NO.
F 00757	5940-874-9033	TERMINAL, LUG (89110) 41274		EA	4									
M F 00758		LEAD, ELECTRICAL: 4T-4X1 TO TB2-25 (27315) 279F276D133 MANUFACTURE FROM:		EA	1									
P F 00759	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (16 IN. REQUIRED)		FT		SEE	GRP	9501						
F 00760	5940-874-9033	TERMINAL, LUG (89110) 41274		EA	1									
F 00761	5940-156-1510	TERMINAL, LUG (89110) 34125		EA	1									
M F 00762		LEAD, ELECTRICAL: 2RH-152 TO 1C-153 (27315) 279F690150 MANUFACTURE FROM:		EA	1									
P F 00763	6145-189-6751	WIRE, ELECTRICAL: No. 16 AWG (12 IN. REQUIRED)		FT		SEE	GRP	9501						
F 00764	5940-271-3862	TERMINAL, LUG (59730) RB863		EA	1									
F 00765	5940-644-8713	TERMINAL, LUG (59730) RB873		EA	1									
M F 00766		LEAD, ELECTRICAL: 2RH-151 TO 3T-5X2 (27315) 279F690148 MANUFACTURE FROM:		EA	1									
P F 00767	6145-189-6751	WIRE, ELECTRICAL: No. 16 AWG (8 IN. REQUIRED)		FT		SEE	GRP	9501						
F 00768	5940-271-3862	TERMINAL, LUG (89110) 35603		EA	1									
F 00769	5940-644-8713	TERMINAL, LUG (89110) 35363		EA	1									
M F 00770		LEAD, ELECTRICAL: 2RH-151 TO E-156 (27315) 279F690632 MANUFACTURE FROM:		EA	1									
P F 00771	6145-189-6751	WIRE, ELECTRICAL: No. 16 AWG (14 IN. REQUIRED)		FT		SEE	GRP	9501						
F 00772	5940-271-3862	TERMINAL, LUG (89110) 35603		EA	1									
F 00773	5940-644-8713	TERMINAL, LUG (89110) 35363		EA	1									
M F 00774		LEAD, ELECTRICAL: 1C-154 TO 4T-4H1 (27315) 279F690241 MANUFACTURE FROM:		EA	1									
P F 00775	6145-189-6751	WIRE, ELECTRICAL: No. 16 AWG (16 IN. REQUIRED)		FT		SEE	GRP	9501						
F 00776	5940-644-8713	TERMINAL, LUG (89110) 35363		EA	2									
M F 00777		LEAD, ELECTRICAL: E-155 TO 4T-4H2 (27315) 279F690633 MANUFACTURE FROM:		EA	1									
P F 00778	6145-189-6751	WIRE, ELECTRICAL: No. 16 AWG (14 IN. REQUIRED)		FT		SEE	GRP	9501						
F 00779	5940-644-8713	TERMINAL, LUG (89110) 35363		EA	1									

(1)	(2)	(3)		(4)	(5)	(6)			(7)			(8)	(9)	
SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	UNIT OF MEAS	QTY INC IN UNIT	30-DAY DS MAINT ALLOWANCE			30-DAY GS MAINT ALLOWANCE			1-YR ALW PER 100 EQUIP CNTGY	ILLUS-TRATION	
						(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100		(a) FIG. NO.	(b) ITEM NO.
F 00780	5940-230-0515	TERMINAL, LUG (89110) 35362		EA	1									
M F 00781		LEAD, ELECTRICAL: 2RES-144 TO S5-142 (27315) 279F27605 MANUFACTURE FROM:		EA	1									
P F 00782	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (12 IN. REQUIRED)		FT		SEE	GRP	9501						
F 00783	5940-874-9033	TERMINAL, LUG (89110) 41274		EA	2									
F 00784	5310-012-0614	NUT, PLAIN, HEXAGON: BY-PASS CAPACITOR MTG SCREW (96906) MS35650-102		EA	4								D12	23
F 00785	5310-012-0622	NUT, PLAIN, HEXAGON: CLEANING CAPACITOR MTG SCREW (96906) MS35649-82		EA	2								D12	16
F 00786	5310-550-0777	NUT, PLAIN, HEXAGON: INDUCTANCE COIL ASSEMBLY MTG SCREW (96906) MS35690-402		EA	2								D12	25
F 00787	5310-012-0622	NUT, PLAIN, HEXAGON: NON-INDUCTIVE RESISTOR MTG SCREW (96906) MS35649-82		EA	2	SEE	GRP	4411						
F 00788	5310-202-8502	NUT, PLAIN, HEXAGON: TRANSFORMER MTG (96906) MSS35690-802		EA	4								D12	51
X2F 00789		NUT, SELF-LOCKING, HEXAGON: HIGH FREQUENCY TRANSFORMER MTG SCREW (72962) 22NM02		EA	4								D12	19
X1 00790		PLATE, HIGH FREQUENCY MOUNTING (27315) 216F33406		EA	1								D12	75
P2F 00791	5905-012-4380	RESISTOR, FIXED, WIRE WOUND (27315) 80Z11		EA	1	SEE	GRP	4411						
P2F 00792	5905-012-4382	RESISTOR, FIXED, WIRE WOUND: NON-INDUCTIVE (44655) 4KN-53-25BN10		EA	1	SEE	GRP	4411						
F 00793	5305-012-1887	SCREW, CAP, HEXAGON HEAD: INDUCTANCE COIL ASSEMBLY MOUNTING (96906) MS35291-6		EA	2								D12	13
O 00794	5305-021-4602	SCREW, CAP, HEXAGON HEAD: SPRK GAP ASSEMBLY MTG (96906) MS35292-5		EA	2	SEE	GRP	4410					D12	18
F 00795	5305-043-6751	SCREW, MACHINE: BY-PASS CAPACITOR MTG, CADMIUM OR ZINC CHROMATE, No. 10-32 THD SIZE, 5/8 IN. LG (96906) MS35226-64		EA	4								D12	2
F 00796	5305-043-6693	SCREW, MACHINE: CLEANING CAPACITOR MTG (96906) MS35225-43		EA	2								D12	72
F 00797	5305-043-6751	SCREW, MACHINE: HIGH FREQUENCY TRANSFORMER MTG (96906) MS35226-64		EA	4								D12	5
F 00798	5305-043-6693	SCREW, MACHINE: NON-INDUCTIVE RESISTOR MTG (96906) MS35225-43		EA	2	SEE	GRP	4411						
F 00799		SCREW, MACHINE: TRANSFORMER MTG NUT		EA	4								D12	54

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE (a) 1-20	(b) 21-50	(c) 51-100	(7) 30-DAY GS MAINT ALLOWANCE (a) 1-20	(b) 21-50	(c) 51-100	(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUS-TRATION (a) FIG. NO.	(b) ITEM NO.
P O 00800	3431-012-4362	SPARK GAP ASSEMBLY (27315) 9579F81-1		EA	1	SEE	GRP	4410					D12	
P2F 00801	5950-761-8721	TRANSFORMER, POWER STEP-UP: HIGH FREQUENCY (27315) 27991		EA	1	*	*	*	*	*	*	5	D12	6
F 00802	5310-012-0217	WASHER, LOCK: BY-PASS CAPACITOR MTG (96906) MS35338-24		EA	4								D12	22
F 00803	5310-012-0214	WASHER, LOCK: CLEANING CAPACITOR MTG SCREW (96906) MS35338-26		EA	2								D12	15
F 00804	5310-012-0380	WASHER, LOCK: INDUCTANCE COIL ASSEMBLY MTG SCREW (96906) MS35338-25		EA	2								D12	24
F 00805	5310-012-0214	WASHER, LOCK: NON-INDUCTIVE RESISTOR MTG SCREW (96906) MS35338-26		EA	2	SEE	GRP	4411						
O 00806	5310-012-0380	WASHER, LOCK: SPARK GAP ASSEMBLY MTG (96906) MS35338-25		EA	2	SEE	GRP	4410					D12	17
X2F 00807		REACTOR, SATURABLE (27315) 9279E131-2		EA	1								D10	
X1 00808		COIL, AC REACTOR (27315) 9275E74-1		EA	1								D10	25
P2F 00809	5950-012-4443	COIL, DC EXCITER (27315) 9275F53-2		EA	4	*	*	*	*	*	*	5	D10	23
X1 00810		CORE AND SUPPORT, REACTOR (27315) 276E3001		EA	1								D10	31
P2F 00811	5950-012-4450	INSULATION SET: SATURABLE REACTOR (27315) 275H151		EA	1	*	*	*	*	*	*	3	D10	24
P2F 00812	5970-012-4451	INSULATOR, PLATE (27315) 75H293D15		EA	1	*	*	*	*	*	*	3	D10	26
F 00813	5310-202-8552	NUT, PLAIN, HEXAGON: YOKE TO CORE (96906) MS35690-802		EA	2								D10	28
F 00814		SCREW, CAP, HEXAGON HEAD: YOKE TO CORE (27315) 0609V136		EA	2								D10	19
X2F 00815		SHIM (27315) 275H17808		EA	1								D10	30
F 00816	5310-584-5272	WASHER, LOCK: YOKE TO CORE SCREW (96906) MS35338-29		EA	2								D10	27
X1 00817		YOKE, REACTOR (27315) 276F30D2	A	EA	1								D10	29
X2F 00818		REACTOR: STABILIZING (27315) 9279F270-2		EA	1								D10	
X1 00819		COIL, REACTOR (27315) 9275F148-2		EA	1								D10	5
X1 00820		COIL, REACTOR (27315) 9275F148-1		EA	1								D10	6
X1 00821		CORE, REACTOR (27315) 276F62D2	A	EA	1								D10	7
X1 00822		INSULATION SET: STABILIZING REACTOR (27315) 275H64		EA	1								D10	4

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUSTRATION	
						(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100		(a) FIG. NO.	(b) ITEM NO.
F 00823	5310-202-8552	NUT, PLAIN, HEXAGON: REACTOR TO SUPPORT SCREW (96906) MS35690-802		EA	2								D10	3
F 00824		SCREW, CAP, HEXAGON HEAD: REACTOR TO SUPPORT (27315) 0810V120		EA	2								D10	12
X1 00825		SUPPORT: STABILIZING REACTOR (27315) 216F416		EA	1								D10	13
F 00826	5310-012-0384	WASHER, LOCK: RECTOR TO SUPPORT SCREW (96906) MS35338-29	A	EA	2								D10	2
X1 00827		YOKE, REACTOR (27315) 276F6302		EA	1								D10	1
P2F 00828	5950-012-4444	TRANSFORMER, CURRENT (08931) JAU0750X91G17		EA	1	*	*	*	*	*	*	5	D3	23
P2F 00829	5950-012-4445	TRANSFORMER, POWER, STEP-DOWN: CONTROL (27315) 9279F234		EA	1	*	*	*	*	*	*	5	D12	53
P2H 00830	5950-892-9588	TRANSFORMER, POWER STEP-DOWN: MAIN (27315) 9279E130-2	A	EA	1				*	*	*	5	D11	
X1 00831		COIL, TRANSFORMER: LN (27315) 9275A155-1		EA	1								D11	10
X1 00832		COIL, TRANSFORMER: RN (27315) 9275A156-1		EA	1								D11	30
X1 00833		CORE, TRANSFORMER (27315) 276F902	A	EA	1								D11	9
X1 00834		INSULATION SET: MAIN TRANSFORMER (27315) 275H158	A	EA	1								D11	11
F 00835	5310-550-0777	NUT, PLAIN, HEXAGON: TERMINAL BOARD MTG (96906) MS35690-402		EA	4								D11	24
F 00836	5310-543-5089	NUT, PLAIN, HEXAGON: TRANSFORMER TO SUPPORT SCREW (96906) MS35690-802		EA	2								D11	27
X2F 00837		TERMINAL, BOARD: MAIN TRANSFORMER (27315) 9279F233-2		EA	1									
X2F 00838	5940-014-4423	LINK, TERMINAL CONNECTING (27315) 279F277D1		EA	2								D11	20
F 00839	5310-543-4971	NUT, PLAIN, HEXAGON: TERMINAL SCREW (96906) MS35690-411	A	EA	18								D11	19
F 00840		SCREW, CAP, HEXAGON HEAD: TERMINAL (27315) 202581	A	EA	6								D11	12
X1 00841		TERMINAL BOARD (27315) 279F268	A	EA	1								D11	18
X2F 00842		TERMINAL, QUICK DISCONNECT (72765) QL45		EA	2								D11	14
F 00843	5310-209-0111	WASHER, FLAT: TERMINAL SCREW, BRASS, 5/16 IN. ID, 3/4 IN. OD, 1/16 IN. THK (96906) MS15795-611	A	EA	18								D11	13
X2F 00844		SCREW, CAP, HEXAGON HEAD: TRANSFORMER TO SUPPORT (27315) 0609V139	A	EA	2								D11	39

(1)	(2)	(3)		(4)	(5)	(6)			(7)			(8)	(9)	
SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	UNIT OF MEAS	QTY INC IN UNIT	30-DAY DS MAINT ALLOWANCE			30-DAY GS MAINT ALLOWANCE			1-YR ALW PER 100 EQUIP CNTGY	ILLUSTRATION	
						(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100		(a) FIG. NO.	(b) ITEM NO.
X2F 00845		SUPPORT, TRANSFORMER (27315) 216E9701		EA	1								D11	34
F 00846	5310-194-1540	WASHER, FLAT: TERMINAL BOARD MTG (96906) MS15795-210		EA	4								D11	25
F 00847	5310-584-5257	WASHER, LOCK: TRANSFORMER TO SUPPORT SCREW (96906) MS35338-29		EA	2								D11	28
X1 00848		YOKE, TRANSFORMER (27315) 276H503		EA	1								D11	29
00849		4413 - RECTIFIER COMPONENTS												
P2F 00850	5970-012-4454	INSULATOR, PLATE: RELAY RECTIFIER (27315) 279H142		EA	1	*	*	*	*	*	*	5	D7	24
F 00851	6310-543-2628	NUT, PLAIN, HEXAGON: CONTROL RECTIFIER MTG, CADMIUM OR ZINC CHROMATE, 3/8-16 THD SIZE (96906) MS35690-602		EA	1								D7	9
F 00852	5310-202-8551	NUT, PLAIN, HEXAGON: MAIN POWER RECTIFIER MTG (96906) MS35690-502		EA	4								D12	38
F 00853	5310-012-0622	NUT, PLAIN, HEXAGON: RELAY RECTIFIER MTG (96906) MS35649-82		EA	1								D7	11
P2F 00854	6130-012-4477	RECTIFIER, METALLIC: CONTROL (81093) SD1254		EA	1	*	*	*	*	*	*	5	D7	31
P2F 00855	6130-012-4475	RECTIFIER, METALLIC: MAIN POWER (81483) 61-9038		EA	1	*	*	*	*	*	*	5	D12	35
P2F 00856	6130-014-4478	RECTIFIER, METALLIC: RELAY (73506) SF11R16F000		EA	1	*	*	*	*	*	*	5	D7	25
F 00857	5310-543-2705	WASHER, LOCK: CONTROL RECTIFIER MTG, CADMIUM OR ZINC CHROMATE, 0.382 IN. ID, 0.094 IN. THK (96906) MS35338-27		EA	1								D7	10
F 00858	5310-012-0214	WASHER, LOCK: MAIN POWER RECTIFIER MTG (96906) MS35338-26		EA	4								D12	37
F 00859	5310-011-5544	WASHER, LOCK: RELAY RECTIFIER MTG, 0.172 IN. ID, 0.332 IN. OD, 0.020 IN. THK (96906) MS35333-4		EA	1								D7	12
00860		GROUP 95 - GENERAL USE STANDARDIZED PARTS												
00861		9501 - BULK MATERIAL												
P F 00862	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG		FT		4	8	17	4	8	17	200		
P F 00863	6145-686-4396	WIRE, ELECTRICAL: No. 6 AWG		FT		*	2	2	*	2	2	12		
P F 00864	6145-189-6751	WIRE, ELECTRICAL: No. 16 AWG	A	FT		*	2	2	*	2	2	12		
P F 00865	6150-190-0998	WIRE, ELECTRICAL: No. 0, 2646 STRANDS OF No. 34, .0063 IN. AWG	B	FT		*	*	2	*	*	2	6		

Section VII. INDEX-FEDERAL STOCK NUMBER AND REFERENCE NUMBER CROSS-REFERENCE TO INDEX NUMBER

STOCK NUMBER	INDEX NUMBER
3431-012-4357	00723
3431-012-4362	00591
3431-012-4362	00800
3431-851-4665	00412
3431-891-0972	00413
3431-891-0972	00500
4710-277-5529	00615
4730-277-5553	00132
4810-012-4355	00691
5305-010-0111	00593
5305-011-3231	00734
5305-012-1887	00083
5305-012-1887	00087
5305-012-1887	00793
5305-012-1960	00611
5305-012-2033	00610
5305-012-2033	00632
5305-012-2033	00657
5305-014-3253	00705
5305-014-5367	00036
5305-021-4602	00585
5305-021-4602	00794
5305-042-0479	00080
5305-042-0479	00081
5305-042-0479	00374
5305-042-0507	00373
5305-043-6589	00733
5305-043-6663	00375
5305-043-6663	00589
5305-043-6663	00590
5305-043-6666	00090
5305-043-6693	00494
5305-043-6693	00543
5305-043-6693	00554
5305-043-6693	00566
5305-043-6693	00744
5305-043-6693	00796
5305-043-6693	00798
5305-043-6707	00718
5305-043-6750	00532
5305-043-6751	00795
5305-043-6751	00797
5305-043-6752	00587
5305-044-5957	00588
5305-068-0501	00086
5305-071-2239	00058
5305-261-1820	00084
5305-261-1822	00085
5305-270-7525	00732
5305-527-4193	00082
5305-527-4195	00117
5305-531-1783	00493
5305-543-2717	00609
5305-543-2717	00630
5305-543-2717	00655
5305-543-4251	00596
5305-543-4891	00384
5305-545-8271	00633
5305-545-8271	00658
5305-550-3934	00492
5305-550-9345	00422
5305-550-9349	00421
5305-558-3676	00091
5305-558-3676	00120
5305-576-7099	00507
5305-637-4028	00088
5305-637-4028	00089
5305-637-4028	00743
5305-637-9506	00634
5305-637-9506	00659
5305-680-6004	00631
5305-680-6004	00656
5305-811-9252	00735
5305-984-6194	00586
5305-988-1724	00688
5306-225-8497	00049
5310-010-3088	00726
5310-010-3319	00572
5310-010-3319	00594
5310-011-5543	00111
5310-011-5544	00717
5310-011-5544	00839
5310-011-5547	00525
5310-012-0214	00110
5310-012-0214	00618
5310-012-0214	00643
5310-012-0214	00688
5310-012-0214	00746
5310-012-0214	00803
5310-012-0214	00805
5310-012-0214	00858
5310-012-0217	00802
5310-012-0380	00105
5310-012-0380	00108
5310-012-0380	00109
5310-012-0380	00617
5310-012-0380	00642
5310-012-0380	00667
5310-012-0380	00694
5310-012-0380	[illegible]
5310-012-0380	00747
5310-012-0380	00804
5310-012-0380	00806
5310-012-0384	00103
5310-012-0384	00826
5310-012-0614	00531
5310-012-0614	00784
5310-012-0622	00488
5310-012-0622	00542
5310-012-0622	00553
5310-012-0622	00565
5310-012-0622	00698
5310-012-0622	00713
5310-012-0622	00785
5310-012-0622	00787
5310-012-0622	00853
5310-013-1498	00505
5310-013-4530	00062
5310-013-4530	00490
5310-013-4530	00576
5310-017-4916	00524
5310-043-2226	00513
5310-043-2226	00571
5310-045-0591	00693
5310-194-1540	00616
5310-194-1540	00641
5310-194-1540	00666
5310-194-1540	00707
5310-194-1540	00846
5310-197-3140	00738
5310-202-8502	00788
5310-202-8545	00074
5310-202-8546	00692
5310-202-8547	00073
5310-202-8548	00077
5310-202-8549	00076
5310-202-8549	00365
5310-202-8549	00366
5310-202-8549	00727
5310-202-8551	00606
5310-202-8551	00627
5310-202-8551	00852
5310-202-8552	00061
5310-202-8552	00065
5310-202-8552	00066
5310-202-8552	00382
5310-202-8552	00813
5310-202-8552	00823
5310-209-0111	00843
5310-209-0709	00101
5310-209-5309	00523
5310-209-5309	00546
5310-209-5309	00558
5310-209-5309	00570
5310-274-8887	00579
5310-274-8893	00070
5310-274-8893	00704
5310-527-3289	00060
5310-543-2629	00069
5310-543-2705	00857
5310-543-4971	00489
5310-543-4971	00639
5310-543-5089	00636
5310-550-0777	00057
5310-550-0777	00064
5310-550-0777	00067
5310-550-0777	00068
5310-550-0777	00491
5310-550-0777	[illegible]
5310-550-0777	00788
5310-550-0777	00835
5310-584-5257	00847
5310-584-5272	00106
5310-584-5272	00107
5310-584-5272	00616
5310-596-4694	00718
5310-596-7674	00104
5310-596-7674	00526
5310-616-3021	00737
5310-650-0190	00714
5310-655-9662	00363
5310-656-0026	00425
5310-761-6882	00063
5310-803-1833	00420
5310-811-2494	00118
5315-619-0212	00370
5320-582-3304	00034
5320-582-3304	00035
5320-582-3304	00067
5325-012-4374	00052
5325-012-4376	00053
5340-012-4377	00509
5340-266-0759	00130
5340-559-8846	00050
5340-956-0098	00078
5355-160-7116	00696
355-160-7116	00730
5355-51 1855	00697
5905-012-4380	00719
5905-012-4380	00791
5905-012-4382	00720
5905-012-4382	00792
5905-012-4389	00731
5905-012-4389	00741
5905-051-3151	00715
5905-690-0475	00740
5905-761-8719	00742
5910-012-4363	00753
5910-012-4390	00749
5910-012-4391	00752
5910-012-4394	00127
5920-221-5689	00529
5920-280-3763	00528
5920-280-9312	00530
5930-012-4400	00600
5930-012-4402	00512
5930-012-4403	00568
5930-012-4407	00556
5930-012-4409	00545
5930-012-4410	00670
5930-012-4411	00671
5930-012-4414	00672
5930-636-4796	00599
5930-761-8720	00620
5930-829-9584	00645
5930-892-9545	00416
5935-012-4416	00403
5935-017-9590	00409
5935-149-4181	00399
5935-149-4181	00400
5935-178-8077	00406
5935-178-8077	00407
5935-178-8077	00681
5935-187-0727	00397
5935-187-0727	00398
5935-187-0727	00677
5935-201-3545	00404
5935-201-3545	00405
5935-201-3545	00680

Section VII. INDEX-FEDERAL STOCK NUMBER AND REFERENCE NUMBER CROSS-REFERENCE TO INDEX NUMBER

Stock Number	Index Number	Stock Number	Index Number	Stock Number	Index Number
5935-557-1116	00128	5940-874-9033	00262	6145-192-3268	00159
5935-581-4099	00414	5940-874-9033	00265	6145-192-3268	00163
5935-891-2671	00401	5940-874-9033	00268	6145-192-3268	00166
5935-891-2671	00415	5940-874-9033	00271	6145-192-3268	00169
5935-891-2671	00501	5940-874-9033	00274	6145-192-3268	00173
5935-892-9806	00402	5940-874-9033	00278	6145-192-3268	00176
5935-892-9806	00679	5940-874-9033	00282	6145-192-3268	00180
5935-892-9814	00410	5940-874-9033	00285	6145-192-3268	00183
5935-893-0736	00408	5940-874-9033	00288	6145-192-3268	00186
5940-012-4427	00380	5940-874-9033	00291	6145-192-3268	00189
5940-012-4429	00419	5940-874-9033	00294	6145-192-3268	00192
5940-014-4423	00838	5940-874-9033	00298	6145-192-3268	00195
5940-020-0116	00518	5940-874-9033	00301	6145-192-3268	00198
5940-050-6221	00467	5940-874-9033	00304	6145-192-3268	00201
5940-050-6221	00470	5940-874-9033	00307	6145-192-3268	00204
5940-050-6221	00473	5940-874-9033	00310	6145-192-3268	00207
5940-050-6221	00476	5940-874-9033	00313	6145-192-3268	00210
5940-050-6221	00517	5940-874-9033	00316	6145-192-3268	00213
5940-050-7095	00178	5940-874-9033	00319	6145-192-3268	00216
5940-050-7095	00218	5940-874-9033	00322	6145-192-3268	00220
5940-050-7095	00222	5940-874-9033	00325	6145-192-3268	00224
5940-050-7095	00275	5940-874-9033	00329	6145-192-3268	00227
5940-050-7095	00279	5940-874-9033	00333	6145-192-3268	00230
5940-050-7095	00326	5940-874-9033	00337	6145-192-3268	00234
5940-050-7095	00330	5940-874-9033	00340	6145-192-3268	00237
5940-050-7095	00357	5940-874-9033	00344	6145-192-3268	00240
5940-050-7095	00538	5940-874-9033	00347	6145-192-3268	00243
5940-156-1510	00334	5940-874-9033	00350	6145-192-3268	00246
5940-156-1510	00455	5940-874-9033	00353	6145-192-3268	00249
5940-156-1510	00761	5940-874-9033	00356	6145-192-3268	00252
5940-230-0515	00780	5940-874-9033	00360	6145-192-3268	00255
5940-230-9911	00495	5940-874-9033	00363	6145-192-3268	00258
5940-271-3862	00764	5940-874-9033	00370	6145-192-3268	00261
5940-271-3862	00768	5940-874-9033	00431	6145-192-3268	00264
5940-271-3862	00772	5940-874-9033	00434	6145-192-3268	00267
5940-504-5886	00515	5940-874-9033	00437	6145-192-3268	00270
5940-518-9382	00161	5940-874-9033	00440	6145-192-3268	00273
5940-518-9382	00446	5940-874-9033	00443	6145-192-3268	00277
5940-518-9382	00449	5940-874-9033	00458	6145-192-3268	00281
5940-518-9382	00452	5940-874-9033	00461	6145-192-3268	00284
5940-644-8713	00765	5940-874-9033	00464	6145-192-3268	00287
5940-644-8713	00769	5940-874-9033	00522	6145-192-3268	00290
5940-644-8713	00773	5940-874-9033	00541	6145-192-3268	00293
5940-644-8713	00776	5940-874-9033	00552	6145-192-3268	00297
5940-644-8713	00779	5940-874-9033	00564	6145-192-3268	00300
5940-874-9033	00142	5940-874-9033	00757	6145-192-3268	00303
5940-874-9033	00145	5940-874-9033	00760	6145-192-3268	00306
5940-874-9033	00148	5940-874-9033	00783	6145-192-3268	00309
5940-874-9033	00151	5945-012-4430	00574	6145-192-3268	00312
5940-874-9033	00154	5945-012-4431	00582	6145-192-3268	00315
5940-874-9033	00157	5945-012-4431	00685	6145-192-3268	00318
5940-874-9033	00160	5945-012-4434	00581	6145-192-3268	00321
5940-874-9033	00164	5945-012-4436	00580	6145-192-3268	00324
5940-874-9033	00167	5945-012-4437	00583	6145-192-3268	00328
5940-874-9033	00170	5945-012-4437	00686	6145-192-3268	00332
5940-874-9033	00174	5945-012-4441	00584	6145-192-3268	00336
5940-874-9033	00177	5950-012-4443	00809	6145-192-3268	00339
5940-874-9033	00181	5950-012-4444	00828	6145-192-3268	00343
5940-874-9033	00184	5950-012-4445	00829	6145-192-3268	00346
5940-874-9033	00190	5950-012-4450	00811	6145-192-3268	00349
5940-874-9033	00193	5950-761-8721	00601	6145-192-3268	00352
5940-874-9033	00196	5950-892-9588	00630	6145-192-3268	00355
5940-874-9033	00199	5970-012-4451	00812	6145-192-3268	00359
5940-874-9033	00202	5970-012-4454	00850	6145-192-3268	00362
5940-874-9033	00205	5970-989-5367	00711	6145-192-3268	00428
5940-874-9033	00208	5975-337-6653	00722	6145-192-3268	00430
5940-874-9033	00211	6105-761-8702	00116	6145-192-3268	00433
5940-874-9033	00214	6130-012-4475	00855	6145-192-3268	00436
5940-874-9033	00217	6130-012-4477	00854	6145-192-3268	00439
5940-874-9033	00221	6130-014-4478	00856	6145-192-3268	00442
5940-874-9033	00225	6145-189-6751	00763	6145-192-3268	00445
5940-874-9033	00228	6145-189-6751	00767	6145-192-3268	00448
5940-874-9033	00231	6145-189-6751	00771	6145-192-3268	00451
5940-874-9033	00235	6145-189-6751	00775	6145-192-3268	00454
5940-874-9033	00238	6145-189-6751	00778	6145-192-3268	00457
5940-874-9033	00241	6145-189-6751	00864	6145-192-3268	00460
5940-874-9033	00244	6145-192-3268	00141	6145-192-3268	00463
5940-874-9033	00247	6145-192-3268	00144	6145-192-3268	00537
5940-874-9033	00250	6145-192-3268	00147	6145-192-3268	00540
5940-874-9033	00253	6145-192-3268	00150	6145-192-3268	00551
5940-874-9033	00256	6145-192-3268	00153	6145-192-3268	00563
5940-874-9033	00259	6145-192-3268	00156	6145-192-3268	00756

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STOCK NUMBER	INDEX NUMBER
6145-192-3268	00759
6145-192-3268	00782
6145-192-3268	00862
6145-686-4396	00466
6145-686-4396	00469
6145-686-4396	00475
6145-686-4396	00863
6145-688-4396	00472
6150-190-0997	00456
6150-190-0998	00478
6150-190-0998	00482
6150-190-0998	00487
6150-190-0998	00865
6310-543-2628	00851
6625-012-4464	00124
6625-012-4465	00125
6625-012-4468	00745
6625-012-4470	00377
6625-012-4471	00378
6645-012-4371	00675
6645-012-4371	00689
6645-840-6186	00673
6645-840-6186	00674
9905-807-3712	00005

INDEX-FEDERAL STOCK NUMBER AND REFERENCE NUMBER CROSS-REFERENCE TO INDEX NUMBER

Reference No.	Mfg Code	Index No.	Reference No.	Mfg Code	Index No.
AB1337	77342	00583	MS35289-5	96906	00732
AB1337	77342	00686	MS35289-5	96906	00084
AB1338	77342	00581	MS35289-6	96906	00085
AB1339	77342	00582	MS35291-1	96906	00609
AB1339	77342	00685	MS35291-1	96906	00630
AB1340	77342	00584	MS35291-1	96906	00655
AB1341	77342	00580	MS35291-111	96906	00082
AGO-290650A	12584	00575	MS35291-114	96906	00364
BP1-3-4	99017	00078	MS35291-12	96906	00056
B14-14	59730	00446	MS35291-15	96906	00611
B14-14	59730	00449	MS35291-19	96906	00634
B14-14	59730	00452	MS35291-19	96906	00659
B14-14	59730	00161	MS35291-19	96906	00705
C1793-10Z4	78553	00365	MS35291-3	96906	00743
C1793-10Z4	78553	00366	MS35291-3	96906	00088
C1793-10Z4	78553	00727	MS35291-3	96906	00089
C1793-10Z4	78553	00076	MS35291-32	96906	00631
C1881-10Z4	78553	00077	MS35291-32	96906	00656
C700-1420-4	78553	00074	MS35291-37	96906	00610
C7000-832-4	78553	00714	MS35291-37	96906	00632
C7343-1420	78553	00075	MS35291-37	96906	00657
C7343-1420-4	78553	00073	MS35291-39	96906	00633
C917-10Z4	78553	00071	MS35291-39	96906	00658
C917-10Z4	78553	00072	MS35291-5	96906	00086
E71	59730	00467	MS35291-6	96906	00793
E71	59730	00470	MS35291-6	96906	00083
E71	59730	00473	MS35291-6	96906	00087
E71	59730	00476	MS35291-8	96906	00493
E71	59730	00517	MS35292-5	96906	00585
F166D66	15279	94273	MS35292-5	96906	00794
HP11N	09922	00050	MS35309-8	96906	00492
H1M	30703	00673	MS35333-23	96906	00060
H1M	30703	00674	MS35333-3	96906	00111
H2541A	27191	00599	MS35333-4	96906	00717
H6S	30703	00675	MS35333-4	96906	00859
H6S	30703	00689	MS35333-6	96906	00525
JAU0750X91G17	08931	00828	MS35338-22	96906	00526
MSS35690-802	96906	00788	MS35338-22	96906	00693
MSS5305-9	08285	00374	MS35338-22	96906	00104
MSS5305-9	08285	00080	MS35338-23	96906	00523
MSS5305-9	08285	00081	MS35338-23	96906	00546
MSS5920-02	08286	00528	MS35338-23	96906	00558
MSS5920-02	08288	00529	MS35338-23	96906	00570
MS15795-207	96906	00692	MS35338-24	96906	00513
MS15795-21	96906	00616	MS35338-24	96906	00571
MS15795-21	96906	00641	MS35338-24	96906	00802
MS15795-21	96906	00666	MS35338-25	96906	00617
MS15795-21	96906	00707	MS35338-25	96906	00642
MS15795-21	96906	00846	MS35338-25	96906	00667
MS15795-211	96906	00101	MS35338-25	96906	00694
MS15795-211	96906	00102	MS35338-25	96906	00708
MS15795-605	96906	00425	MS35338-25	96906	00747
MS15795-611	96906	00843	MS35338-25	96906	00804
MS15795-8	96906	00737	MS35338-25	96906	00806
MS20600AD4-2	96906	00034	MS35338-25	96906	00105
MS20600AD4-2	96906	00035	MS35338-25	96906	00108
MS20600AD4-2	96906	00687	MS35338-25	96906	00109
MS35206-28	96906	00688	MS35338-26	96906	00618
MS35222-64	96906	00733	MS35338-26	96906	00643
MS35222-77	96906	00596	MS35338-26	96906	00668
MS35225-28	96906	00375	MS35338-26	96906	00746
MS35225-28	96906	00589	MS35338-26	96906	00803
MS35225-28	96906	00590	MS35338-26	96906	00805
MS35225-31	96906	00090	MS35338-26	96906	00858
MS35225-43	96906	00494	MS35338-27	96906	00110
MS35225-43	96906	00543	MS35338-27	96906	00690
MS35225-43	96906	00554	MS35338-29	96906	00857
MS35225-43	96906	00566	MS35338-29	96906	00816
MS35225-43	96906	00744	MS35338-29	96906	00826
MS35225-43	96906	00796	MS35338-29	96906	00847
MS35225-43	96906	00798	MS35338-29	96906	00103
MS35225-46	96906	00586	MS35338-29	96906	00106
MS35225-57	96906	00716	MS35338-6	96906	00107
MS35225-77	96906	00588	MS35338-6	96906	00572
MS35225-80	96906	00091	MS35338-6	96906	00594
MS35226-63	96906	00532	MS35338-6	96906	00597
MS35226-64	96906	00795	MS35649-62	96906	00739
MS35226-64	96906	00797	MS35649-62	96906	00490
MS35226-65	96906	00587	MS35649-62	96906	00576
MS35229-26	96906	00422	MS35649-65	96906	00062
MS35229-31	96906	00421	MS35649-82	96906	00420
MS35289-10	96906	00593		96906	00488

Section VII. INDEX-FEDERAL STOCK NUMBER AND REFERENCE NUMBER CROSS-REFERENCE TO INDEX NUMBER

REFERENCE No.	MFG CODE	INDEX No.
MS35649-82	96906	00542
MS35649-82	96906	00553
MS35649-82	96906	00565
MS35649-82	96906	00698
MS35649-82	96906	00713
MS35649-82	96906	00785
MS35649-82	96906	00787
MS35649-82	96906	00853
MS35650-101	96906	00726
MS35650-102	96906	00531
MS35650-102	96906	00784
MS35690-402	96906	00057
MS35690-402	96906	00064
MS35690-402	96906	00067
MS35690-402	96906	00491
MS35690-402	96906	00703
MS35690-402	96906	00786
MS35690-402	96906	00635
MS35690-411	96906	00489
MS35690-411	96906	00839
MS35690-502	96906	00069
MS35690-502	96906	00606
MS35690-502	96906	00627
MS35690-502	96906	00652
MS35690-502	96906	00852
MS35690-602	96906	00851
MS35690-802	96906	00061
MS35690-802	96906	00065
MS35690-802	96906	00066
MS35690-802	96906	00382
MS35690-802	96906	00813
MS35690-802	96906	00823
MS35690-802	96906	00836
MS35691-802	96906	00383
MS51967-2	96906	00063
MS90725-32	96906	00049
PJX652	14655	00127
P1-2412SB	71785	00402
P1-2412SA	71785	00679
QL45	72765	00842
RB863	59730	00764
RB873	59730	00765
SD1254	81093	00854
SF11R16F00	73506	00856
S1-2412CCT	71785	00410
S5-6-10	71400	00530
WC596P22	81348	00414
WC596STYLE	81348	00501
WC596STYLEC21	81348	00400
WC596STYLEC21	81348	00399
WC596STYLEN21	81348	00401
WC596STYLEN21	81348	00415
XPH6	15605	00416
X7600	39595	00115
0609V136	27315	00814
0609V139	27315	00844
0810V120	27315	00824
0915V001	27315	00499
1-475L	97918	00504
1-475M	97918	00503
1210-61-16	78189	00373
18P926D8	27315	00121
2-475L	97918	00506
20Z40D21	27315	00733
20Z40D4	27315	00507
20Z40D7	27315	00734
20Z40D7	27315	00036
20Z581	27315	00840
20Z616D4	27315	00712
20Z616D5	27315	00505
206F3D4	27315	00138
21CU040	72962	00704
21CU040	72962	00070
2100F105	27315	00645
2100E159	27315	00620
2100E186	27315	00411
2100F76	27315	00600
2100H1531	27315	00676
214E49	27315	00051
214F95D1	27315	00725
214H81	27315	00682
216E48D1	27315	00039
216F48D2	27315	00040
216E58	27315	00048
216E97D1	27315	00845
216F189D1	27315	00100
216F195D1	27315	00079
216F334D6	27315	00790
216F371	27315	00099
216F416	27315	00825
216F417	27315	00098
216H552	27315	00706
216H553	27315	00097
216H599	27315	00751
216H821	27315	00133
217-6A	14655	00753
218H104D3	27315	00638
218H104D3	27315	00663
218H104D5	27315	00615
218H104D5	27315	00639
218H104D5	27315	00664
218H104D7	27315	00640
218H104D7	27315	00665
22NM02	72962	00578
22NM02	72962	00789
22NM62	72962	00579
22NM82	72962	00118
220H45	27315	00619
220H45	27315	00669
220H45	27315	00644
227E116	27315	00095
227E167D3	27315	00093
227E217	27315	00094
227F157	27315	00044
227F158	27315	00045
227F200	27315	00043
227F272D3	27315	00047
227F282	27315	00041
227F95	27315	00092
227H15	27315	00096
227H48	27315	00046
227H49	27315	00042
227U1	27315	00122
232E107	27315	00025
232E113	27315	00011
232E142	27315	00026
232E143	27315	00012
232F110	27315	00006
232F217	27315	00017
232F288	27315	00022
232F289	27315	00007
232F290	27315	00018
232F291	27315	00684
232F291	27315	00024
232H275	27315	00009
232H277	27315	00003
232H302D1	27315	00114
232H318	27315	00027
232H331	27315	00019
232H332	27315	00023
232H333	27315	00014
232H334	27315	00013
232H359	27315	00030
232H375	27315	00033
232H376	27315	00032
232H473	27315	00004
232H474	27315	00029
232H475	27315	00010
232H475	27315	00015
232H476	27315	00031
232H477	27315	00016
232H478	27315	00008
232H95	27315	00729
232H95	27315	00028
232H96	27315	00728
232H96	27315	00020
2419V038	27315	00135
244Z2	27315	00372
244Z2	27315	00136
244Z3	27315	00371
275H151	27315	00811
275H158	27315	00834
275H178D8	27315	00815

Section VII. INDEX-FEDERAL STOCK NUMBER AND REFERENCE NUMBER CROSS-REFERENCE TO INDEX NUMBER

Reference No.	Mfg Code	Index No.
275H64	27315	00822
275H67D1	27315	00056
275H67D2	27315	00055
275Z40D1	27315	00702
275Z40D2	27315	00701
276E30D1	27315	00810
276F30D2	27315	00817
276F62D2	27315	00821
276F63D2	27315	00827
276F9D2	27315	00833
276H5D3	27315	00848
277F84	27315	00736
279E203	27315	00369
279FZ38D66	27315	00477
279F109D26	27315	00723
279F109D31	27315	00412
279F119D18	27315	00413
279F119D18	27315	00500
279F160	27315	00131
279F163D49	27315	00391
279F164D22	27315	00389
279F164D4	27315	00387
279F164D91	27315	00386
279F164D92	27315	00392
279F164D94	27315	00385
279F164D95	27315	00393
279F238-181	27315	00487
279F238D117	27315	00485
279F238D181	27315	00481
279F238D81	27315	00464
279F238D89	27315	00486
279F268	27315	00841
279F276D1	27315	00429
279F276D1	27315	00152
279F276D1	27315	00185
279F276D1	27315	00305
279F276D10	27315	00206
279F276D10	27315	00289
279F276D11	27315	00320
279F276D12	27315	00209
279F276D12	2731	00317
279F276D123	27315	[illegible]
279F276D123	27315	00361
279F276D13	27315	00462
279F276D13	27315	00179
279F276D13	27315	00248
279F276D131	27315	00456
279F276D133	27315	00331
279F276D133	27315	00758
279F276D14	27315	00232
279F276D15	27315	00335
279F276D15	27315	00162
279F276D16	27315	00223
279F276D18	27315	00314
279F276D181	27315	00203
279F276D181	27315	00311
279F276D19	27315	00550
279F276D19	27315	00562
279F276D2	27315	00755
279F276D2	27315	00146
279F276D2	27315	00182
279F276D2	27315	00302
279F276D23	27315	00432
279F276D27	27315	00348
279F276D27	27315	00435
279F276D27	27315	00226
279F276D28	27315	00345
279F276D3	27315	00155
279F276D30	27315	00342
279F276D30	27315	00351
279F276D30	27315	00441
279F276D32	27315	00358
279F276D33	27315	00438
279F276D4	27315	00197
279F276D4	27315	00308
279F276D43	27315	00427
279F276D5	27315	00781
279F276D5	27315	00172
279F276D5	27315	00194
279F276D5	27315	00286
279F276D58	27315	00354
279F276D58	27315	00175

Reference No.	Mfg Code	Index No.
279F276D6	27315	00188
279F276D63	27315	00272
279F276D63	27315	00323
279F276D64	27315	00276
279F276D64	27315	00327
279F276D7	27315	00459
279F276D7	27315	00149
279F276D7	27315	00200
279F276D7	27315	00299
279F276D70	27315	00219
279F276D74	27315	00338
279F276D74	27315	00168
279F276D8	27315	00165
279F276D8	27315	00212
279F276D8	27315	00296
279F276D82	27315	00215
279F276D9	27315	00229
279F276D98	27315	00292
279F277D1	27315	00838
279F280D4	27315	00388
279F320D12	27315	00251
279F320D13	27315	00254
279F320D14	27315	00257
279F320D15	27315	00260
279F320D16	27315	00263
279F320D17	27315	00266
279F320D18	27315	00269
279F320D21	27315	00280
279F320D22	27315	00283
279F320D27	27315	00245
279F320D3	27315	00539
279F320D7	27315	00143
279F320D7	27315	00239
279F320D8	27315	00236
279F320D9	27315	00242
279F321D1	27315	00367
279F327D4	27315	00368
279F53D310	27315	00444
279F53D313	27315	00447
279F53D315	27315	00450
279F53D492	27315	00453
279F66D253	27315	00465
279F66D254	27315	00468
279F66D255	27315	00471
279F66D256	27315	00474
279F69D148	27315	00766
279F69D150	27315	00762
279F69D241	27315	00774
279F69D632	27315	00770
279F69D633	27315	00777
279H142	27315	00850
279H195	27315	00535
279H250	27315	00381
279H24D3	27315	00653
279H241	27315	00608
279H241	27315	00629
279H241	27315	00654
279H242D2	27315	00607
279H242D4	27315	00628
279H243	27315	00605
279H243	27315	00626
279H243	27315	00651
279H244	27315	00604
279H244	27315	00625
279H244	27315	00650
279H245	27315	00602
279H245	27315	00623
279H245	27315	00648
279H246	27315	00603
279H246	27315	00624
279H246	27315	00649
279H247	27315	00601
279H247	27315	00621
279H247	27315	00646
279H248D2	27315	00613
279H248D2	27315	00636
279H248D2	27315	00661
279H248D3	27315	00614
279H248D3	27315	00637
279H248D3	27315	00662
279H255D2	27315	00129
279H294D10	27315	00635

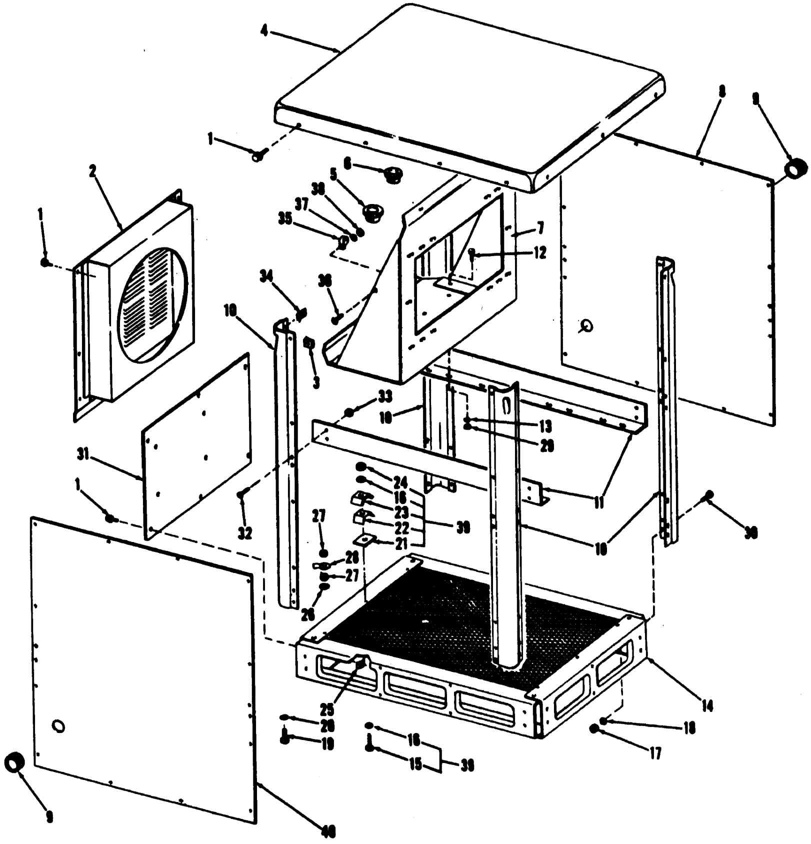
Section VII. INDEX-FEDERAL STOCK NUMBER AND REFERENCE NUMBER CROSS-REFERENCE TO INDEX NUMBER

REFERENCE NO.	MFG CODE	INDEX NO.
279H294D4	27315	00612
279H294D8	27315	00660
279H301	27315	00622
279H301	27315	00647
279H375	27315	00390
279H385	27315	00139
279H388	27315	00418
279H409	27315	00555
279H409	27315	00567
279H410	27315	00548
279H410	27315	00560
279H411	27315	00561
279H412	27315	00549
279H413	27315	00534
279H414	27315	00544
279Q1	27315	00801
279Z151	27315	00417
279Z9101	27315	00545
279Z91D3	27315	00556
279Z91D4	27315	00568
280F301	27315	00700
280Z33	27315	00715
287Z31D13	27315	00137
287Z31D15	27315	00052
287Z31D16	27315	00053
287Z32	74545	00406
287Z32	74545	00407
287Z32	74545	00681
287Z44	74545	00404
287Z44	74545	00405
287Z44	74545	00680
287Z31D13	27315	00683
288Z15	27315	00116
3-475L	97918	00510
3-475M	97918	00511
3000C25-3	70611	00424
3000M131	70611	00423
3000M362	70611	00557
3000M362	70611	00569
32445	89110	00496
32446	89110	00497
32466	89110	00518
325202	89110	00514
325302	89110	00520
325402	89110	00516
328163	89110	00519
3303	59730	00722
33459	89110	00521
34122	89110	00515
34124	89110	00364
34125	89110	00334
34125	89110	00455
34125	89110	00761
34138	89110	00495
34522U	04009	00574
3502-14-15	78189	00709
35362	89110	00780
35363	89110	00769
35363	89110	00773
35363	89110	00776
35363	89110	00779
35603	89110	00768
35603	89110	00772
36921	89110	00480
36922	89110	00483
36925	89110	00479
39601-33	04009	00419
4-475M	97918	00508
4KN-53-25BN10	44655	00792
4KN53-25BN10	44655	00720
4010-18-00	78189	00738
4014-22-00	78189	00524
41274	89110	00337
41274	89110	00340
41274	89110	00344
41274	89110	00347
41274	89110	00350
41274	89110	00353
41274	89110	00356
41274	89110	00360
	89110	00363

REFERENCE NO.	MFG CODE	INDEX NO.
41274	89110	00431
41274	89110	00434
41274	89110	00437
41274	89110	00440
41274	89110	00443
41274	89110	00458
41274	89110	00461
41274	89110	00464
41274	89110	00522
41274	89110	00541
41274	89110	00552
41274	89110	00564
41274	89110	00757
41274	89110	00760
41274	89110	00783
41274	89110	00142
41274	89110	00145
41274	89110	00148
41274	89110	00151
41274	89110	00154
41274	89110	00156
41274	89110	00157
41274	89110	00160
41274	89110	00164
41274	89110	00167
41274	89110	00170
41274	89110	00174
41274	89110	00177
41274	89110	00181
41274	89110	00184
41274	89110	00187
41274	89110	00190
41274	89110	00193
41274	89110	00196
41274	89110	00199
41274	89110	00202
41274	89110	00205
41274	89110	00208
41274	89110	00211
41274	89110	00214
41274	89110	00217
41274	89110	00221
41274	89110	00225
41274	89110	00228
41274	89110	00231
41274	89110	00235
41274	89110	00238
41274	89110	00241
41274	89110	00244
41274	89110	00247
41274	89110	00250
41274	89110	00253
41274	89110	00256
41274	89110	00259
41274	89110	00262
41274	89110	00265
41274	89110	00268
41274	89110	00271
41274	89110	00274
41274	89110	00278
41274	89110	00282
41274	89110	00285
41274	89110	00288
41274	89110	00291
41274	89110	00294
41274	89110	00298
41274	89110	00301
41274	89110	00304
41274	89110	00307
41274	89110	00310
41274	89110	00313
41274	89110	00316
41274	89110	00319
41274	89110	00322
41274	89110	00325
41274	89110	00329
41274	89110	00333
41330	89110	00357
41330	89110	00538
41330	89110	00178
41330	89110	00218

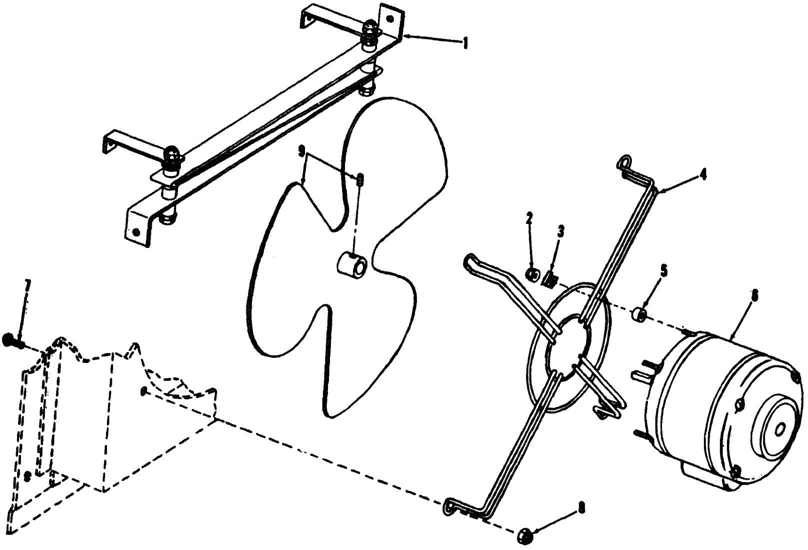
Section VII. INDEX-FEDERAL STOCK NUMBER AND REFERENCE NUMBER CROSS-REFERENCE TO INDEX NUMBER

Reference No.	Mfg Code	Index No.
41330	89110	00275
41330	89110	00279
41330	89110	00326
41330	89110	00330
41332	89110	00341
41332	89110	00171
41333	89110	00295
4141D	97918	00502
4141D1	97918	00512
46460	44655	00731
46460	44655	00741
46464A	44655	00742
49F6036	74545	00749
49F6221	01002	00752
50-140011-500	08931	00745
5130	44655	00696
5130	44655	00730
514X26	03516	00125
5150	44655	00697
518X10	03516	00378
5242T	81091	00403
532H253	27315	00059
579F133	27315	00592
59-040-187 1000	72962	00370
6MS35690-4 2	89690	0006
6X	99017	00128
6000	44655	00718
6011	44655	00711
61-9038	81483	00855
612X54	03516	00124
612X80	03516	00377
616L	70411	00132
67343-1420 4	78553	00577
7-475M	97918	00509
70291-063	05402	00691
7250GT	77166	00408
7410GT	77166	00409
7411	74545	00724
7428	74545	00678
7484	74545	00397
7484	74545	00398
7484	74545	00677
75H293D15	27315	00812
75K5P	37942	00740
7565K8	27191	00672
7611K4	27191	00671
7613K4	27191	00670
79F276D3	73152	01912
79F276D4	73152	01402
80Z11	27315	00719
80Z11	27315	00791
829	70485	00130
86002	80721	00134
9227H11	27315	00113
9275A155-1	27315	00831
9275A156-1	27315	00832
9275A72-8	27315	00754
9275E74-1	27315	00808
9275F148-1	27315	00820
9275F148-2	27315	00819
9275F53-2	27315	00809
9275H3	27315	00054
9279E122-2	27315	00750
9279E130-2	27315	00830
9279E131-2	27315	00807
9279E26-9	27315	00721
9279F174	27315	00126
9279F233-2	27315	00837
9279F234	27315	00829
9279F243D13	27315	00395
9279F243D14	27315	00396
9279F270-2	27315	00818
9279F290-1	27315	00559
9279F290-2	27315	00547
9279F291-1	27315	00533
9279H10	27315	00595
9279H20-2	27315	00710
9279H21-5	27315	00380
9279H356	27315	00426
9279H9	27315	00598
9280F6-1	27315	00699
9280F6-1	27315	00119
9579F81-1	27315	00591
9579F81-1	27315	00800
9579H29-2	27315	00498



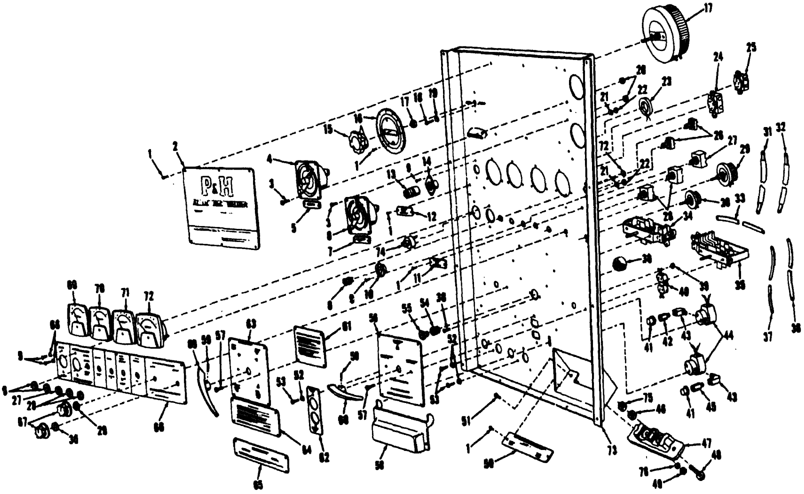
ME 3431-213-14/D-1

FIGURE NO. D-1 STRUCTURAL COMPONENTS



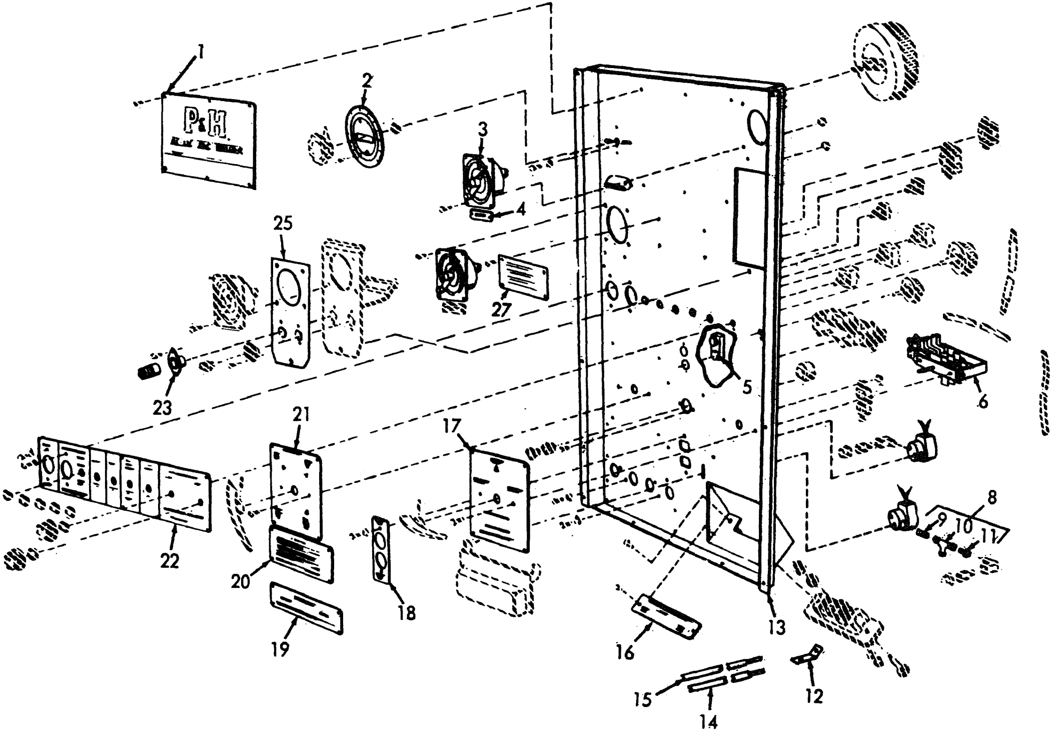
ME 3431-213-14/D-2

FIGURE NO. D-2 FAN AND MOTOR



ME 3431-213-14/D-3

FIGURE NO. D-3 CONTROL PANEL



ME 3431-213-14/D-4

FIGURE NO. D-4 CONTROL PANEL

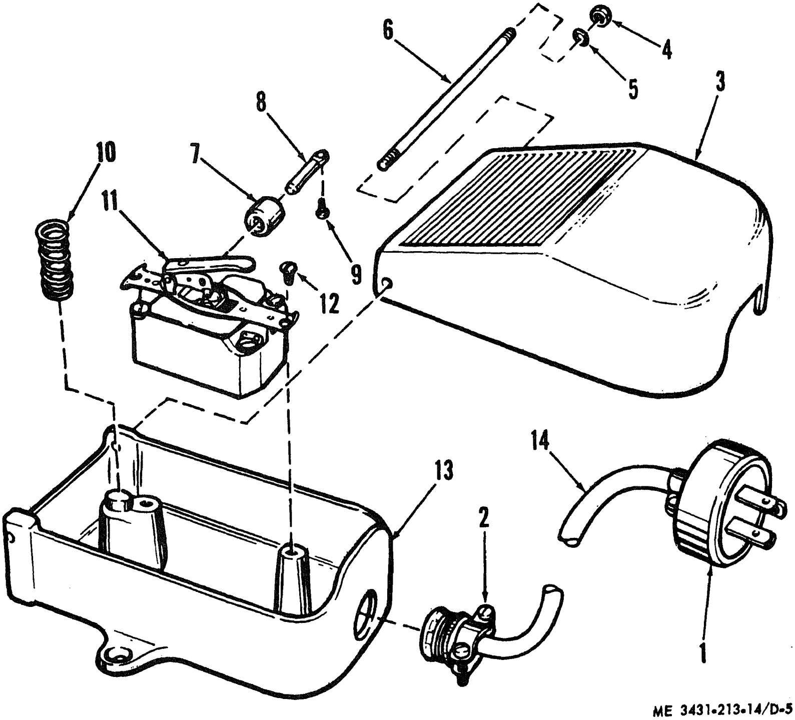
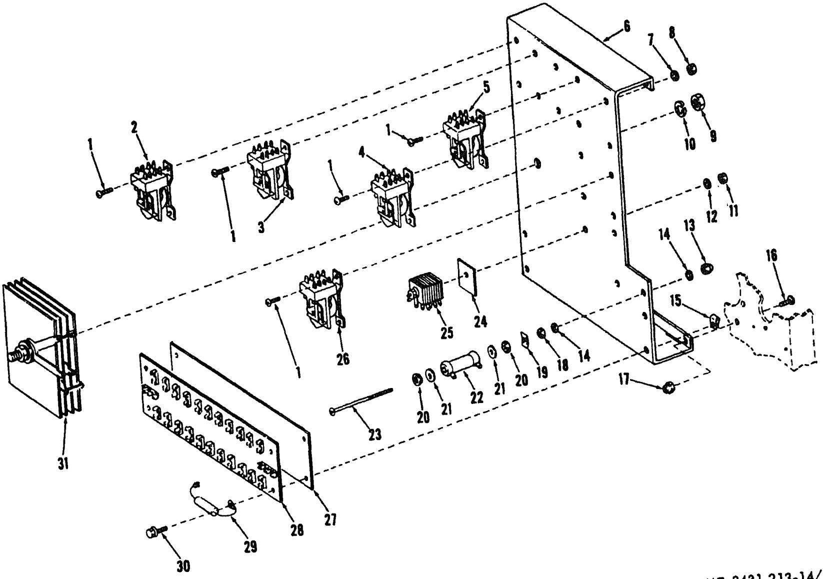


FIGURE NO. D-5 FOOT SWITCH



ME 3431-213-14/D-7

FIGURE NO. D-7 RELAY PANEL

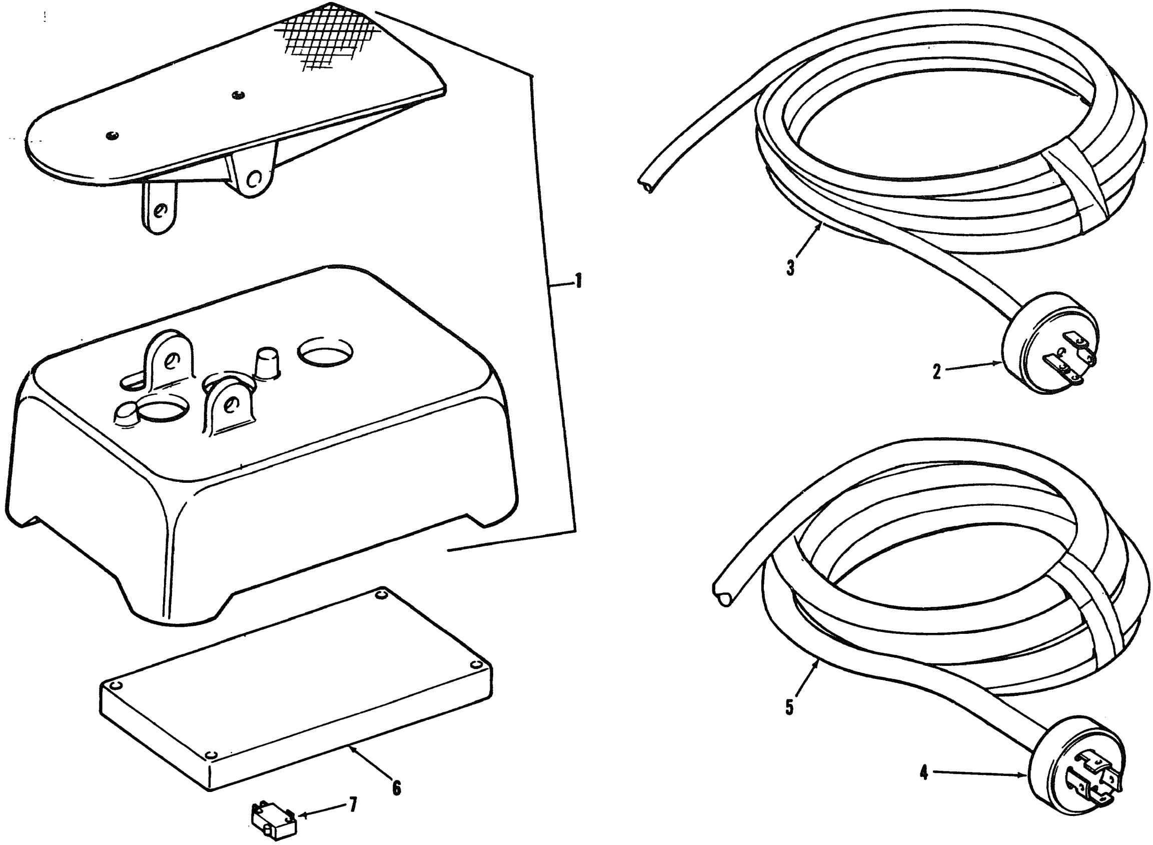
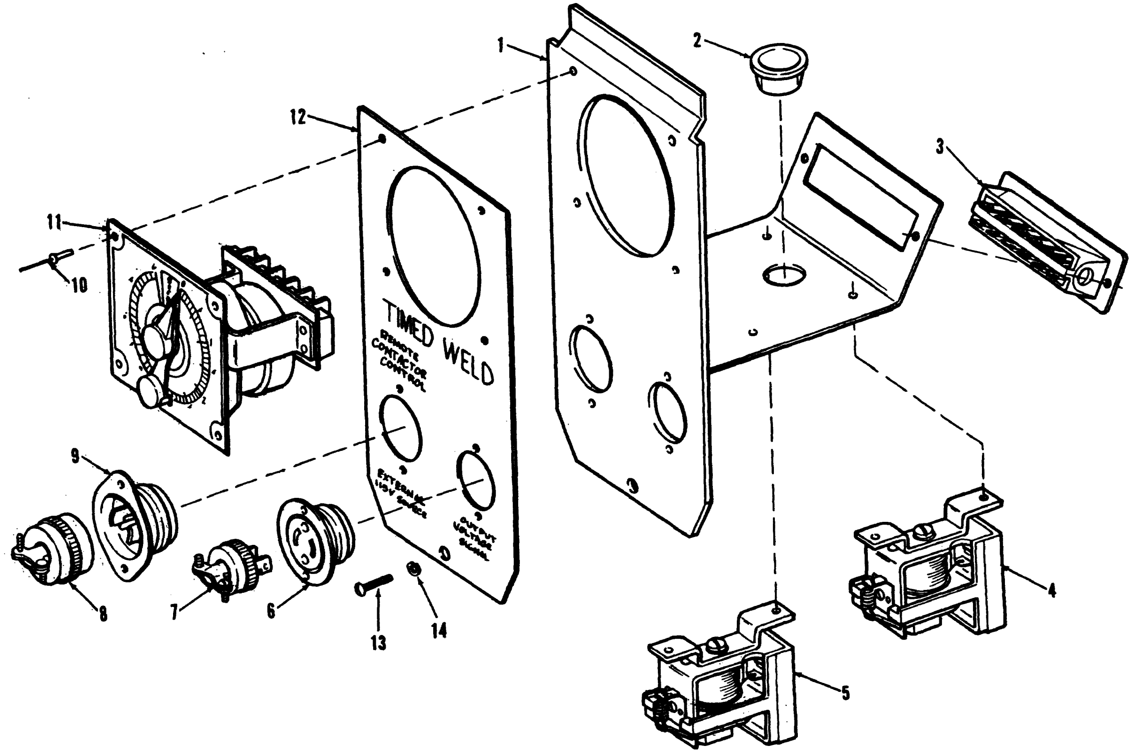
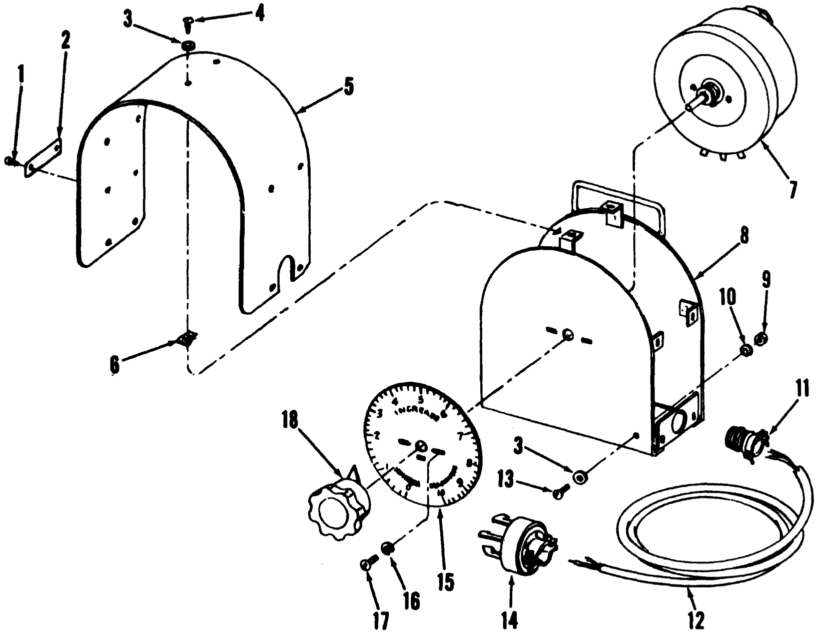


FIGURE NO. D-6 FOOT SWITCH OUTPUT CONTROL

ME 3431-213-14

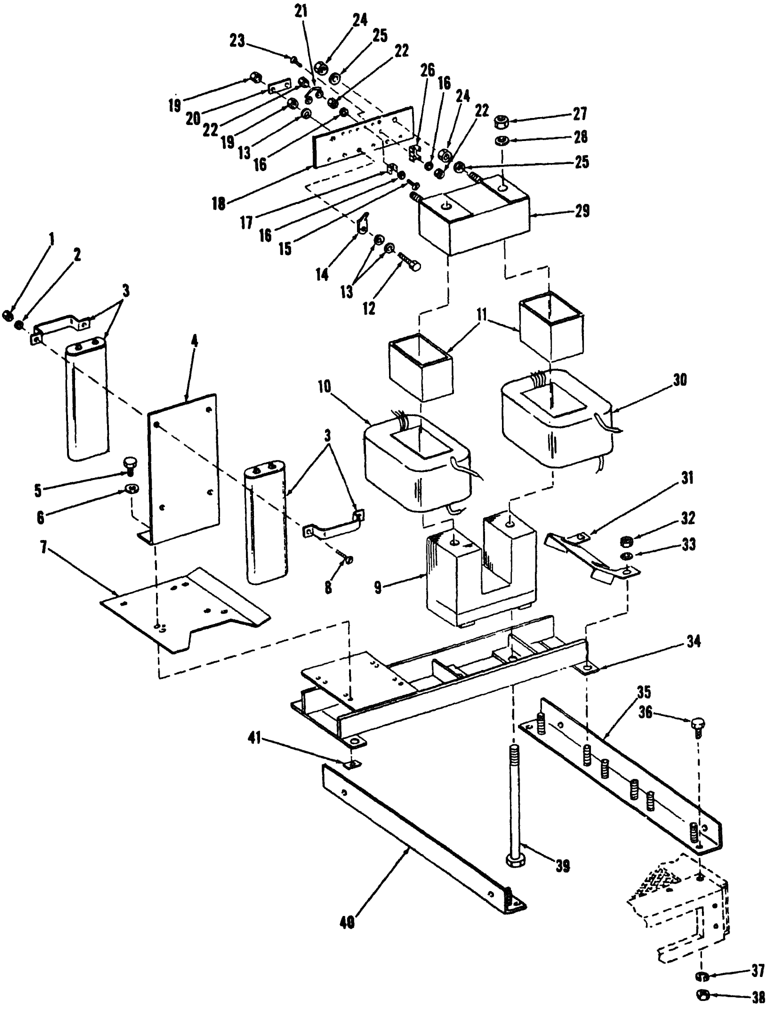


ME 3431-213-14/D-9



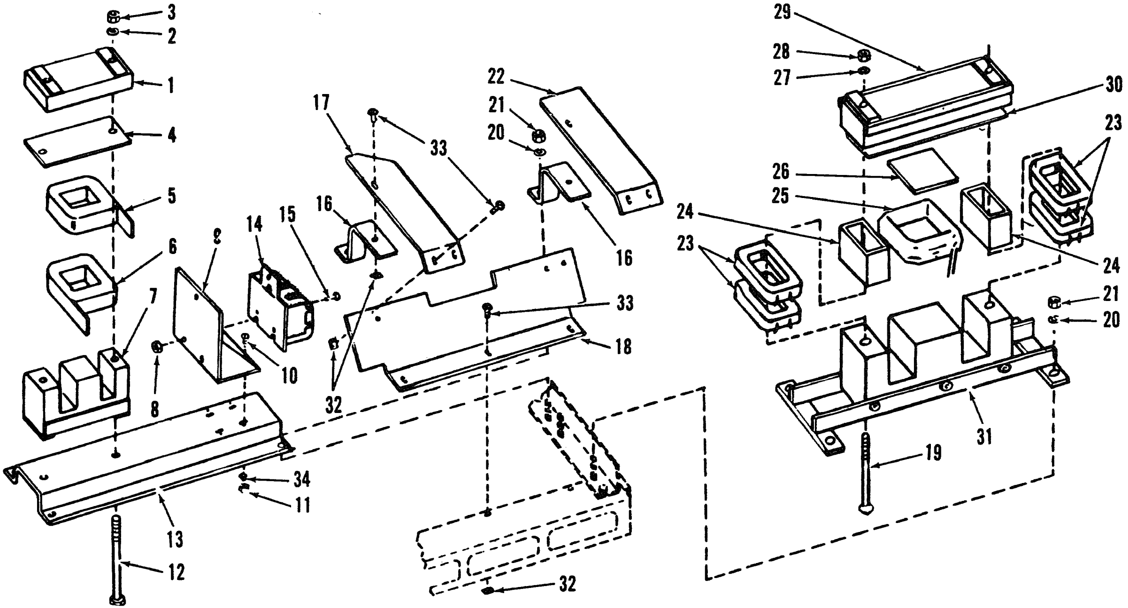
ME 3431-213-14/D-8

FIGURE NO. D-8 REMOTE CONTROL RHEOSTAT



ME 3431-213-14/D-11

FIGURE NO. D-11 MAIN TRANSFORMER



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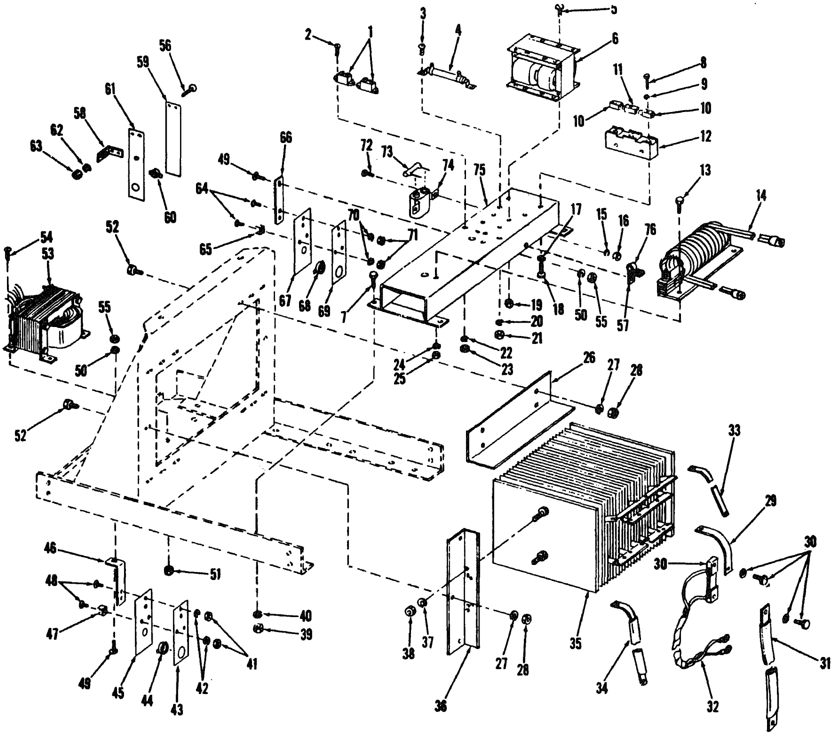

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By Order of the Secretary of the Army:

W. C. WESTMORELAND,
General, United States Army,
Chief of Staff.

Official:
KENNETH G. WICKHAM,
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